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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

YELLOWSTONE NATIONAL PARK

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MONTHLY REPORTS, NATURALIST DIVISION 1953

(Activity)

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ROGERS
HAMILTON
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FEB 6 1953 PM 2 24
YELLOWSTONE NATIONAL PARK

UNITED STATES
DEPARTMENT OF THE INTERIOR

REPORT 9M2

NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
JANUARY 1953

General

During the month of January the weather was very mild, and although there were very few cloudless days there was very little snow fall and virtually the entire snow cover at the lower elevated sections of the park disappeared. There were not very many visitors who stopped in at the headquarters museum, but some people were granted admittance.

Administration

The activities of the Naturalist Division were directed by Chief Park Naturalist Condon throughout the month.

Special Activities and Conferences

On January 5 it became necessary to open the road to the Old Faithful area in order to bring Park Naturalist George D. Marler and his family out. Mr. Marler's health had been failing him and he was having considerable trouble with severe leg pains, so upon the recommendations of a physician he was removed from the Old Faithful area. The morning of the 5th a caravan left Mammoth consisting of two snow plows, a pickup truck from the Chief Ranger's office, one from the Naturalist's office and the plumbers. This caravan moved right along and arrived at Old Faithful before 2:00 p.m. Marlers, with all of their household supplies, were moved into Mammoth by 6:30 that evening.

During the month a number of special memoranda were prepared outlining the general division needs including interpretive improvements proposed, seasonal naturalist quarters maintenance needs and physical improvement needs in interpretive structures. In addition to these, a rather long and detailed memorandum was prepared covering the signs and signing needs which were observed during the past season.

The Chief Park Naturalist attended the regular staff meetings of the Yellowstone staff on January 7 and January 20. Special staff meetings attended were: one on fees to be charged for park entry, on the 15th; and one on the northern Yellowstone Park elk problem on the 22nd. A sign committee meeting was attended on the 13th and at that time considerable business with respect to the furthering of the sign program for Yellowstone was completed by the committee.

On January 16th and 17th Chief Park Naturalist Condon accompanied Acting Superintendent Hamilton to Missoula, Montana where they met with Dr. W. J. Severy to discuss the possibility of his presenting at the Absaroka Conservation Committee meeting in May the conservationists point of view with respect to retaining the Yellowstone National Park inviolate to public hunting. Dr. Severy was favorable to carrying out this assignment, and in view of this fact considerable information was left with him for his use in preparing his presentation.

During the month several manuscript copies of varying lengths were received from various sources. These were reviewed, commented upon and returned to the authors. In addition, a number of pictures and one set of Kodaslides were sent in for identification. These were captioned and returned to their owners.

The budget estimates for the 1955 fiscal year were prepared for the Chief Clerk's office with the justifications for added permanent naturalist positions and for funds sufficient to up-grade the present five GS-5 naturalist positions to GS-6 positions and to up-grade four of the IGS-4 park ranger naturalist positions to GS-5.

On January 24 the community of Gardiner dedicated the new school plant and at that time Chief Park Naturalist Condon gave a talk on the governments participation in the construction and operation of the new school plant.

Religious Services and Chapel Use

During the month a complete inventory was made of all physical property at the Yellowstone Park chapel. Copies of this inventory were made available to the Yellowstone Park Church Committee, to the superintendent of the Sunday School, to the general files and to the student minister organization.

Regular Sunday School services were held each Sunday at 10:30 a.m. The Young People's Fellowship group used the Yellowstone Park chapel for two Sundays for their services. A special program presented by this group was placed on a tape recorder and was transcribed over station KPRK of Livingston, Montana on Thursday the 29th.

The Rev. E. A. Syms of St. Andrews Episcopal church in Livingston, Montana conducted the interdenominational Protestant services which were held in the Yellowstone Park chapel at 7:30 p.m. on January 11.

In-Service Training

Master Mechanic Robert R. Robinson, Jr. during the month presented two programs - one on the 7th and the other on the 19th - as in-service training on building fire fighting, building fire prevention and building fire protection. These same training movies were also presented to members of the community.

The News Letter was published weekly.

Chief Ranger Otto Brown conducted a ski instruction program for eleven men of the Protection Division. This program was started during January for a two-week period. Instructions began daily at 1:00 p.m. and a total of 328 man hours of training in basic skiing was given to the group.

Interpretive Services

Superintendent Edmund B. Rogers of Yellowstone presented the movie entitled "Geyserland" in Washington D. C. on January 13 as part of the National Capital Parks program. He reports that the talk was very well received and that there were 680 persons in attendance. Of this group 150 had to stand, and an additional 150 persons had to be turned away.

Museum Activities and Exhibits

The panels for the moose exhibit to be installed at Willow Park arrived in Yellowstone in good condition on January 29.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Watson was on duty all month except for four days of sick leave. Park Naturalist Elmore was in attendance at the museum training school in Washington D. C. from January 12 through the balance of the month. The fore part of the month he was on annual leave. Clerk-stenographer Proznick was on duty all month except for 14 hours of annual leave and 20 hours of sick leave. Park Naturalist Marler was moved out of Old Faithful on the 5th day of January. He was on sick leave the 6th and 7th, and on leave-without-pay from the 8th to the 29th. Mr. Marler left on January 6 to go down into Idaho for medical examination and treatment. He returned to duty on January 29.

All former park ranger naturalists were placed on the alert to watch out for the announcement of the Civil Service examination for park rangers and to take this examination if it were at all possible for them to qualify and take it. A request was made to the Director's office that they attempt to get the Civil Service Commission to permit men over 35 years of age who have had many years of seasonal National Park Service experience and who are non-veterans to take the park ranger examination so that if it becomes necessary for us to select seasonal naturalists from a park ranger register we will be able to continue to return to duty those men who have a background of experience.

Research and Observation

On the trip to Old Faithful made January 5 it was observed that there was very little snow in any of the area between Mammoth and Old Faithful. Elk were observed on Swan Lake Flat, in Willow Park and at Roaring Mountain. Several bulls were seen in Gibbon Meadows and some were observed in the Lower Geyser Basin. Several bull bison were in the meadow in front of the Madison Museum. One herd of approximately 50 head of bison was seen up Nez Perce Creek. Another group of 14 were counted near the mouth of Nez Perce Creek. In addition to these animals, four bulls were seen near Old Faithful Geyser.

One rather interesting observation was made along the Firehole River where it was noted that the elk had traveled through the snow from one sagebrush bush to the next, had pawed around the top of the bush and browsed the top of the bush out, then walked on to the next. This pattern was characteristic across the whole large flat below the mouth of Nez Perce Creek. This browsing appeared to have been done entirely by elk.

Robins were observed around Mammoth on the 27th of January. The mild periods of rain between January 10 and 14 actually brought angle worms out of the lawns onto the bare asphalt roads and sidewalks.

Library

Books received in January	5
Books in circulation in January	8
Books on indefinite loan	109
Magazines received in January	15
Pamphlets received in January	11

Natural History Association

Book sales by the Association during January were $61.04.

The Association financed the duplication of Kodaslides for use in the field sets and a number of slides were duplicated by Meston and returned during the month.

The Association purchase 13 lithograph prints of Yellowstone scenes which were published in 1902. These were purchased from Mr. James E. Price of Yosemite National Park for the sum of $25.00. They are considered to be a valued addition to the Yellowstone collection.

During the month several rubber address stamps were purchased for use at field stations.

Word was received on January 29 of the approval by the Regional Director for the organization of the Custer Battlefield Historical and Museum Association and at the months close plans were completed for the transfer of funds, physical property and accession materials which had been acquired by the Yellowstone Library and Museum Association to the newly organized Custer Battlefield Historical and Museum Association. A transfer of these properties and funds will be made immediately after the first of February.

Mrs. Alice Quist was employed by the Association as a clerk for four afternoons during the month and she worked on Association business and also on the Yellowstone Park negative and photographic file.

Photographic and Visual Aids

During the month Park Naturalist Watson devoted full time for 14 of his working days to photographic projects and darkroom work. During

this time the darkroom work consisted of the making of the following prints:

4x5 contact prints - 824
3½x5 special enlargements - 10
5x7 enlargements - 65
8x10 enlargements - 95
10x14 enlargements - 20

Black and white glossy prints were supplied to a number of interested parties who requested pictures for illustrating articles or for other purposes. In addition, animal pictures were supplied to the Superintendent of Wind Cave, to the Southern California Automobile Association and a large number of animal prints were supplied to an Italian publishing firm for illustrating an animal book. The negatives which were loaned to Hot Springs National Park for their use in preparing enlargements were returned to Yellowstone on January 3. Pictures were taken of Mr. W. W. "Red" Roten on January 8 for the Yellowstone Park records. Mr. Roten was involved in a criminal charge at that time.

A large set of Kodaslides representative of a variety of National Park Service areas was assembled and sent to Superintendent Rogers on January 15. Mr. Rogers planned to use these in presenting a talk in Denver on January 27.

A set of Kodaslides was sent to the Regional office on January 21. These were to be used by Regional Director Baker in a talk to be given in March.

Proposed Outline of Work for February

1. The completion of the interpretive section of the development outline for Yellowstone.
2. The editing and assembling of 16mm motion picture film.
3. The issuance of the January-February Yellowstone Park Nature Notes.
4. Work on the museum prospectus.
5. Preparation of museum exhibit plans.
6. Routine work of the division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Sent to Reg. Two 2/6/53 Circulation (Region Two)
Director
Museum

REVISED MAY 1949.

Form No. 10-769
Reports
8m3 and 9m3

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

January
Month

1953
Year

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
Permanent	3		1	4
Temporary	1			1

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total			XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total			XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.		
(Give Name or Type) Total			XXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
(Give Name or Type) Total			XXXXXXXX

893
Number Visitors to Area this Month

Total Interpretive Contacts.

Interpretive Activities Outside of the Area:	Govt. Publications	Sold	On Hand
Washington D.C. - 1/13/53 680			

REMARKS: all museums and wayside exhibits closed

*INSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE.
Please read them carefully.

NAME Standish Condon
TITLE Chief Park Naturalist

THE PURPOSE OF THIS FORM IS TO SECURE AN ACCURATE RECORD OF INTERPRETIVE SERVICES FURNISHED VISITORS ON A UNIFORM BASIS FOR ALL N.P.S. AREAS.

EXPLANATION OF TERMS USED

"INTERPRETIVE" PERSONNEL ARE NATURALISTS OR RANGER NATURALISTS, HISTORIANS, AND HISTORICAL AIDES.
"ADMINISTRATIVE" ARE SUPERINTENDENTS, ASST. SUPERINTENDENTS, ETC., CALLED ON TO ASSIST WITH INTERPRETATION.
"OTHER" ARE RANGERS, CLERICAL PERSONNEL, AND THE LIKE WHO MAY BE CALLED IN TO HELP INTERPRET THE AREA.
"CONTACT" IS A CONNECTION, INTERPRETIVE IN CHARACTER, BETWEEN A PERSON AND A NATIONAL PARK SERVICE EMPLOYEE OR A PARK INTERPRETIVE DEVICE, EXCLUSIVE OF RADIO, BOOK, PAMPHLETS, AND THE LIKE.

CONDUCTED TRIPS: CARAVAN OR HIKING TRIPS CONDUCTED BY N.P.S. PERSONNEL FOR GENERAL FIELD ACTIVITIES. TRIPS SPECIFIC TO RUINS AND HISTORICAL HOUSES SHOULD BE REPORTED ON LINE 3. BE SPECIFIC UNDER OTHER TRIPS AS TO TYPE OF CONDUCTED TRIP SUCH AS BOAT, SKI, OR OTHER ORGANIZED ACTIVITY.

TALKS: REGULARLY SCHEDULED TALKS WITHIN SERVICE AREAS PRESENTED EITHER BY SERVICE PERSONNEL OR BY OUTSIDE SPEAKERS UNDER SERVICE SPONSORSHIP. NOT TO INCLUDE ANY TALKS MADE AS PART OF A CONDUCTED TRIP OR OTHER INTERPRETIVE DEVICE.

ATTENDED INTERPRETIVE STATIONS: ACTUAL COUNT OF PERSONS USING THE STATION (LIBRARY, CONTACT STATION, EXHIBIT ROOMS, STUDY COLLECTIONS, ETC.), COUNT BEING MADE BY SERVICE PERSONNEL IN ATTENDANCE. CHECKING STATIONS OR OFFICES DISPENSING INFORMATION RATHER THAN INTERPRETIVE SERVICE SHOULD NOT BE CONSIDERED AS ATTENDED INTERPRETIVE STATIONS.

INFORMATION IS FACTUAL MATTER RELATIVE TO PHYSICAL DEVELOPMENTS, PHYSICAL FACILITIES, GEOGRAPHIC LOCATIONS, RULES AND REGULATIONS OF THE AREA, AND THE UTILIZATION OF THESE FACILITIES BY THE PUBLIC. IT INCLUDES DATA ON ROUTES AND ROADS, HOTEL ACCOMMODATIONS, BUS AND TRAIN SCHEDULES, AND SIMILAR MATTERS OUTSIDE OF THE AREA REGARDING WHICH VISITORS INQUIRE.

INTERPRETATION IS AN ACCURATE EXPLANATION OF THE MANIFESTATIONS OF NATURAL HISTORY AND HUMAN HISTORY FOUND WITHIN THE AREA.

UNATTENDED INTERPRETIVE DEVICES: UNDER THIS HEADING SHOULD BE ESTIMATED AS ACCURATELY AS POSSIBLE ALL VISITORS USING EXHIBITS-IN-PLACE, ORIENTATION STATIONS, AND OVERLOOKS, WAYSIDE SHELTERS HOUSING INTERPRETIVE DEVICES, TRAILSIDE EXHIBITS, SELF-GUIDING NATURE TRAILS AND AUTO CARAVAN ROUTES, AND THE LIKE AT WHICH SERVICE PERSONNEL IS NOT ON DUTY. HISTORICAL AREAS WILL FIND IN MANY CASES THAT THIS SECTION OF THE FORM DOES NOT APPLY.

INTERPRETIVE ACTIVITIES OUTSIDE THE AREA: THIS INCLUDES ALL INTERPRETIVE ACTIVITIES PERFORMED OR PROVIDED BY SERVICE PERSONNEL OUTSIDE THE AREA.

INSTRUCTIONS FOR FILLING IN THE FORM

(FILL IN ONLY THOSE BLOCKS THAT APPLY)

COLUMN 1 RECORDS THE NUMBER OF TRIPS CONDUCTED DURING THE MONTH, THE NUMBER OF TALKS MADE, AND THE NUMBER OF INTERPRETIVE STATIONS AND DEVICES OPEN TO THE PUBLIC. THE NUMBER OF DAYS THE STATIONS AND DEVICES WERE AVAILABLE MAY BE INDICATED UNDER "REMARKS".

COLUMN 2 INDICATES THE TOTAL ATTENDANCE OF VISITORS AT EACH CLASS OF TRIP, TALK, STATION, OR DEVICE. PLEASE TOTAL EACH COLUMN IN EACH BLOCK. SPACE FOR A TOTAL OF ALL INTERPRETIVE CONTACTS IS PROVIDED.

COLUMN 3 SHOWS THE AVERAGE AMOUNT OF TIME OF EACH CLASS OF SERVICE, OR THE AVERAGE TIME SPENT BY VISITORS IN USING EACH INTERPRETIVE DEVICE. SOME STUDY OF VISITOR HABITS MUST BE MADE WITH PERIODIC CHECKING AT OCCASIONAL INTERVALS.

INTERPRETIVE ACTIVITIES OUTSIDE OF THE AREA ARE INCLUDED ON THIS FORM AS A MATTER OF RECORD ONLY. THEY SHOULD NOT BE INCLUDED IN THE TOTALS. GIVE TYPE OF ACTIVITY; SUCH AS TALK, BROADCAST, EXHIBIT, ETC.; DATE; ATTENDANCE; AND OTHER DATA NECESSARY TO DESCRIBE THE ACTIVITY.

TOTALS: TOTAL ATTENDANCE SHOWS THE ACTUAL NUMBER OF VISITORS WHO TOOK ADVANTAGE OF THE VARIOUS INTERPRETIVE SERVICES OFFERED. SINCE EACH VISITOR MAY USE SEVERAL DIFFERENT INTERPRETIVE DEVICES, THIS ATTENDANCE MAY RECORD A TOTAL CONSIDERABLY IN EXCESS OF THE VISITORS REGISTERED IN THE AREA DURING THE SAME PERIOD. FOR COMPARISON, THE TOTAL NUMBER OF VISITORS TO THE AREA DURING THE MONTH SHOULD BE SHOWN.

GOVERNMENT PUBLICATIONS: (FOR HISTORICAL AREAS) INDICATE BY NAME OR NUMBER THE COPIES SOLD AND ON HAND.

THIS REPORT DUE: FROM ALL NATIONAL PARK SERVICE AREAS PROVIDING INTERPRETIVE SERVICES. RETAIN ORIGINAL IN AREA FILES. IN AREAS EMPLOYING NATURALIST THIS REPORT TO BE ATTACHED TO HIS MONTHLY NARRATIVE REPORTS. IN OTHER AREAS IT SHOULD BE PRESENTED AS A SEPARATE REPORT WITH COPIES FOR COORDINATING SUPERINTENDENT, REGIONAL DIRECTOR AND DIRECTOR FORWARDED THROUGH ADMINISTRATIVE CHANNELS. DATE DUE EACH MONTH IN ACCORDANCE ADMINISTRATIVE MANUAL, VOL. 15, CHAPTER 8 (REPORT 8M3) AND 9 (REPORT 9M3).

NATIONAL PARK SERVICE
1953 MAR 9 PM 4 08
YELLOWSTONE NATIONAL PARK

207-02.4

UNITED STATES
DEPARTMENT OF THE INTERIOR REPORT 9M2
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
FEBRUARY 1953

General

The operations of the divison progressed satisfactorily during the month with the return of Francis Elmore to duty from the museum school in Washington and George Marler from sick leave in Idaho.

Administration

Chief Park Naturalist Condon directed the activities of the division during the month.

Special Activities and Conferences

A detailed report was submitted to the Chief Clerk on February 4 pertaining to the proposed expenditure of funds allotted to the Naturalist Division for the balance of the fiscal year.

A map, some books dealing with legislation in national parks and other information were sent to Dr. W. J. Severy, Montana University, for use in preparing information to be presented to the Absaroka Conservation Committee pertaining to the proposal to open Yellowstone Park for public hunting.

Chief Park Naturalist Condon attended the regular staff meetings held in the Superintendent's office by Assistant Superintendent Hamilton on February 11 and 25th.

A special meeting was attended on February 11 concerning the development of the elk management plan, and also the desirability for preparing a management plan for the antelope was reviewed at that time.

Elmer Armstrong was employed by the Engineering Division to clean and repair place name and informational signs. Mr. Armstrong began work on the 24th and is using the museum workshop. There are about 180 signs which need cleaning or repairing. These signs were brought in last fall in hopes that this work might be accomplished.

Master Carpenter Al Bowman is repairing the screen doors and windows for the Naturalist cabins in the vicinity of the power house.

Religious Services and Chapel Use

Regular Sunday School services were held in the Yellowstone National Park chapel each Sunday morning at 10:30 a.m. The Youth Fellowship group has held their meetings each Sunday evening, alternating between the Yellowstone National Park Chapel and the Gardiner church.

On February 8 the Boy Scouts conducted a special Sunday School service. That evening the Rev. Melvin Walker conducted the inter-denominational Protestant services, and at that time the Scouts took an active part.

In-Service Training

The Yellowstone Park News Letter was published weekly.

Under the direction of Mr. William Proper an in-service training program was instigated on supervisory problems to which all employees were invited. The first meeting was held the night of February 20. Some personnel from the Naturalist Division was in attendance.

Interpretive Services

Chief Park Naturalist Condon presented two talks on Yellowstone National Park at Wilsall, Montana on February 16. A talk was given to the combined grade and high schools in the afternoon at which 180 pupils were in attendance. That evening at 8 p.m. a similar program was presented to the P.T.A. with 75 adults attending.

A set of 50 slides was sent to Mrs. Charles Cyrus Marshall on February 20. These slides were to be used to illustrate a talk for presentation to the National Life Conservation Society at their annual meeting. The selection of these slides and the preparation of a narrative discussion to accompany them took considerable time.

Park Naturalist Watson presented a program to the annual Cub Scout dinner in Gardiner on the 26th of February. There were 40 persons in attendance. He used the motion picture "Geyserland."

Museum Activities and Exhibits

Francis Elmore made a new case for the moose exhibit panels which were received last month from the Director's office. He also spent considerable time on museum accession and catalogue work. In addition to this he devoted considerable time to the roughing in of plans for the revision of exhibits at the Old Faithful museum.

The plate glass front for one of the large exhibit cases in the Mammoth museum was received during the month and placed in the case. The glass in this case was broken during last season.

Personnel

Chief Park Naturalist Condon was on duty all month except for 3 hours of annual leave and 5 hours of sick leave. Park Naturalist Watson

was on duty all month except for 28 hours of sick leave and 10 hours of annual leave. Park Naturalist Elmore was on duty all month. Park Naturalist Marler was on duty all month. Clerk-stenographer Bettilee Proznick was on duty all month except for 10 hours of annual leave.

Park Naturalist Elmore returned to duty at the headquarters museum on Friday the 13th after having spent a month on duty at the Director's office in attendance at the Museum Training School.

There are on hand at the close of the month 43 applications from qualified applicants for seasonal park ranger naturalist positions. In addition to these, 24 of the experienced naturalists from other seasons have indicated a desire to return for the 1953 season and two more are undecided as to whether they can or cannot return. It is anticipated that early in March all of the experienced men will be notified of their selection for return to duty; and, in addition, that at least seven more will be selected from the 43 applicants to fill additional positions. There has been considerable correspondence handled by the division with respect to applications received.

Research and Observation

Copies of Dr. William G. Walter's papers entitled "The Identity of Aerobic Sporeforming Bacteria Isolated from Hot Springs" and "Thermophilic Aerobic Sporeforming Bacteria Isolated From Hot Springs in Yellowstone National Park" were received for the Yellowstone Park library.

The interpretive development outline was completed on February 12 and submitted to the Superintendent for review and approval.

One days time was devoted to the reviewing of the galley proof on the new book "Sex Life of Wild Animals" by Eugene Burns.

The Nature Notes for the January-February edition were edited and prepared for multilithing.

On February 20 there were spectacular sun dogs in the sky. These were associated with the sunrise on that day. The weather was sub-zero, with a minimum recording of about 10° below zero.

Mr. Arthur R. Brazda published "Elk Migration Patterns, and Some of the Factors Affecting Movements in the Gallatin River Drainage, Montana" in the January 1953 issue of the "Journal of Wildlife Management." Much of the data for use in this publication was obtained in Yellowstone National Park.

On February 23 Chief Park Naturalist Condon spent the major part of the day photographing the bighorn sheep on Mt. Everts. At that time four mature rams, one two-year old ram, two lambs, one very small in size, two yearlings and nine ewes were seen. One of the large rams was exceedingly wild.

Park Naturalist Watson spent considerable time working on the preparation of material for use in a proposed publication on the Norris Geyser Basin, and on the completion of notes on the Norris area for filing in the Yellowstone Park Library for reference purposes.

Park Naturalist George Marler devoted the major part of the month of February reviewing all Superintendent's Annual and Monthly reports and assembling all information presented in these on observations of the thermal phenomena into one report covering this aspect of Yellowstone.

Library

Books in circulation in February	20
Books on indefinite Loan	109
Magazines received during February	16
Pamphlets received in February	18

Natural History Association

Mrs. Alice Quist was employed by the Association as a clerk, working three afternoons a week during the month. She worked on the Association business and, in addition, spent considerable time on the photograph files.

On February 5 the Yellowstone Library and Museum Association transferred funds and title to books and other property to the Custer Battlefield Historical and Museum Association. Copies of the communication making this transfer were sent to the Regional Director's office and supplied the Superintendent.

The power tools purchased for the Association for use in the museum workshop have all been placed on stands and at the months close all of this equipment is in working order.

The galley proof and page proof on the book "Yellowstone Fishes" by James Simon were received from the printer during the month. These were reviewed and checked, and it is expected that the publication will be printed in March by the Gazette Printing Co., Billings, Montana.

The manuscript on Old Faithful Geyser by George D. Marler has been reviewed and is ready to send to the Edward Brothers, Inc., Lithoprinters.

Equipment and Supplies

The Speed Graphic which was sent to Graflex, Inc. for repairs was returned on February 12.

The mimeograph was over-hauled on the 10th and on the 12th and 13th the two multilith machines were thoroughly serviced, cleaned and placed in good operating condition.

Photographic and Visual Aids

A copy of the motion picture "Geyserland" was sent to the Regional Office in Omaha on February 18. A set of Kodaslides was sent on a loan basis to Lowell Biddulph for use in presenting a talk on wildlife to a group at the Utah State Agricultural College. A set of 50 Kodaslides was sent to Mrs. Charles Cyrus Marshall. Kodaslides borrowed from park ranger naturalists for duplication purposes were returned to them. Several slides that were on loan to the Chicago Art Institute were returned by them.

On February 21 16mm motion pictures were made of large elk herds in the Lamar Valley and on the 23rd colored movies were made of the bighorn on Mt. Everts.

Darkroom Work

5x7 enlargements - 102
8x10 enlargements - 3
6x8 enlargements - 16

Proposed Outline of Work for March

1. The selection of seasonal personnel for the 1953 season.

2. Editing of 16mm motion picture film.

3. Continuing the planning for the revision of the Old Faithful exhibits.

4. The issuance of the January-February and March-April Nature Notes.

5. Routine work of the Division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

Mailed to Region Two 3-7-53

REVISED MAY 1949.

Form No. 10-769
Reports
8m3 and 9m3

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

February
Month
1953
Year

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
Permanent	3		1	4
Temporary	1			1

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total			XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total			XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.		
(Give Name or Type) Total			XXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
(Give Name or Type) Total			XXXXXXXX

658
Number Visitors to Area this Month

Total Interpretive Contacts.

Interpretive Activities Outside of the Area:

			Govt. Publications	Sold	On Hand
2/16	Wilsall Schools	180			
"	Wilsall P.T.A.	75			
2/26	Gardiner Cub Scouts	40			

REMARKS:

*INSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE.
Please read them carefully.

NAME Lowell S. Cardon
TITLE Chief Park Naturalist

THE PURPOSE OF THIS FORM IS TO SECURE AN ACCURATE RECORD OF INTERPRETIVE SERVICES FURNISHED VISITORS ON A UNIFORM BASIS FOR ALL N.P.S. AREAS.

EXPLANATION OF TERMS USED

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"ADMINISTRATIVE" ARE SUPERINTENDENTS, ASST. SUPERINTENDENTS, ETC., CALLED ON TO ASSIST WITH INTERPRETATION.
"OTHER" ARE RANGERS, CLERICAL PERSONNEL, AND THE LIKE WHO MAY BE CALLED IN TO HELP INTERPRET THE AREA.
"CONTACT" IS A CONNECTION, INTERPRETIVE IN CHARACTER, BETWEEN A PERSON AND A NATIONAL PARK SERVICE EMPLOYEE OR A PARK INTERPRETIVE DEVICE, EXCLUSIVE OF RADIO, BOOK, PAMPHLETS, AND THE LIKE.

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INSTRUCTIONS FOR FILLING IN THE FORM

(FILL IN ONLY THOSE BLOCKS THAT APPLY)

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NATIONAL PARK SERVICE
1953 APR 8 PM 2 02
YELLOWSTONE NATIONAL PARK
HAMILTON
STANTON
GABBERT
PROFER
MATISON
CONDON
BROWN
EVANS
CHAPMAN
McCOMAS
KITTAMS
ROBINSON
WIGGINS
McMULLIN

207-02.4

UNITED STATES
DEPARTMENT OF THE INTERIOR REPORT 9M2
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
MARCH 1953

General

All members of the Naturalist Division were on duty during most of the month of March. Their efforts were pointed primarily toward preparatory work for the 1953 season. There were no outside interpretive activities carried on by members of the division and the number of park visitors to the park did not call for any special interpretive services.

Administration

The activities of the division were under the direct supervision of Chief Park Naturalist Condon throughout the entire month.

Special Activities and Conferences

Chief Park Naturalist Condon and Park Naturalists Elmore and Watson held several conferences during the month on personnel plans for the division, museum planning and research problems.

On the 3rd Chief Park Naturalist Condon spent considerable time with Park Naturalist Marler going over problems related to the thermal research work which he is doing.

The Engineering Division had Elmer Armstrong working in the museum basement on repairing and cleaning the porcelain signs up to and through the 19th. Most of the porcelain signs have been cleaned and where they had been chipped they have been repainted. The Engineering Division is placing many of these signs on the concrete bases and these will be installed in the geyser basins as soon as the roads are opened.

The radio program presented by the Hallmark Hall of Fame on Sunday, March 22, about N. P. Langford was listened to and a tape recording made of it. The program was very dramatic but to those familiar with the history of the Washburn-Langford-Doane party, the background of N. P. Langford and the history of the national park idea and service it seems that the script writers used a little too much poetic license. There was very little of the presentation, as it was interpreted, which actually ever took place. About the only true aspect of the entire story was the fact that Langford did come to Yellowstone National Park with the Washburn-Langford-Doane party.

Chief Park Naturalist Condon attended staff meetings on the 4th and 25th. He attended a meeting of the Management Improvement Committee on the 31st.

Religious Services and Chapel Use

The Yellowstone Park Chapel was used for the regular Sunday School services each Sunday during the month. On March 8 Rev. Fee conducted an interdenominational church service at 7:30 p.m. The Gardiner-Mammoth youth group used the Chapel for two Sunday evenings during the month.

The Yellowstone Park Sunday School held its annual picnic at the Lamar Unit on Saturday, March 7. The weather was ideal and a large group of local residents attended this activity.

On March 12 the Yellowstone Park Church Committee held a regular meeting and at that time reviewed a number of problems with respect to the 1953 religious services program. Following this meeting Superintendent Rogers issued a circular announcing new members to the Church Committee and outlining the responsibilities of the committee.

In-Service Training

The Naturalist Division prepared some special memoranda on the in-service training program and during the month a special series of off-the-job training sessions were held in the Engineering Office on Friday evening from 7:00-9:00 p.m. These training programs had to do with supervisory training and were instigated by William G. Proper, Personnel Assistant. Chief Park Naturalist Condon conducted the training session on the 6th which dealt with the importance and significance of training, especially in-service training. Chief Ranger Otto Brown conducted the training sessions on the 20th and 27th. These dealt with human relations. Members of the Naturalist Division have attended all of these sessions.

Chief Park Naturalist Condon conducted an in-service training session for all employees in the canteen building on the afternoon of March 26. At that time Chief Park Naturalist Condon reviewed the wildlife policies of the National Park Service.

Interpretive Services

On the 10th of the month 126 Kodaslides were sent to Big Bend National Park for their use in presenting interpretive programs on Yellowstone in that area. In addition to these slides, 26 slides were loaned to Park Naturalist Biddulph for presentation of programs and these were returned before the months close.

Mr. Robert R. Robinson showed the Yellowstone movie "Geyserland" on the evening of March 12 to an audience of 100 people in Livingston, Montana. This group represented the Livingston volunteer fire department and their friends.

The January-February issue of Yellowstone Nature Notes was mailed on the 23rd, and the March-April issue edited and ready for duplication by the 25th.

Motion pictures on Yellowstone National Park were loaned to Platt National Park, to Park Naturalist Wayne Replogle of Lawrence, Kansas and to Park Ranger Naturalist Wallace Hennessy of Modesto, California.

Museum Activities and Exhibits

Park Naturalist Elmore has devoted the greater part of his working time during the month to the accumulating of exhibit plans for the rehabilitation of the Old Faithful museum. He has also made repairs to the new moose exhibit which is to be installed at Willow Park. It was necessary to correctly spell names on the vicinity map. Kemmerer, Wyoming had been spelled "Kemperer" and Gardiner, Montana had been spelled "Gardner". These changes were made and that exhibit is now ready for installation.

The museum accessions for the month were pictures of the "Area Operations" group in Glacier National Park, a section of a lodgepole pine with five beaver cuts almost completely through it and a large number of bones from a bull elk and some bird bones which were recovered from the travertine strata about 100 feet below the surface of the parade ground terrace in a side fissure of McCartney's cave.

Personnel

Chief Park Naturalist Condon was on duty all month except for annual leave taken on the 6th. Park Naturalist Watson was on duty all month. Park Naturalist Elmore was on duty all month except for two days annual leave. Park Naturalist Marler was on duty all month. Clerk-stenographer Bettilee Proznick was on duty all month except for 4 hours annual leave taken on the 4th.

The park naturalists and park ranger naturalists were selected to fill the 33 approved naturalist positions for Yellowstone National Park, and letters of acceptance have been received at months close from all except one of these selected applicants.

Research and Observation

Last fall two dog skulls and some dog bones were sent to Dr. William G. Haag, professor of anthropology at Louisiana State University. Early in the month of March we received a report from Dr. Haag that he had had an opportunity to examine these specimens and at that time he submitted a paper to us which he indicated we might want to publish in some periodical which we had control of. This paper was returned to Dr. Haag in view of the fact that the only place we could publish it is in Yellowstone Nature Notes and he had indicated that he had access to professional journals if we did not wish to publish it. Dr. Haag had made some interesting determinations concerning these dog skulls, and placed them at having been buried about 1,000 years ago.

Early in the month of January some Explorer Scouts entered McCartney's cave, and after crawling back in a fissure leading off at a lower level in this cave found some interesting bones in the strata of travertine. These

were turned over to Chief Park Naturalist Condon. On March 8 he visited this site with Scouts Wayne Hamilton, Bruce McMullin, George Mattson, Wilson Condon, Vernon Wright and Ronald White. At that time additional bones were removed from the travertine and some pictures made. On March 27 Park Naturalists Elmore, Condon and Watson entered the cave and at that time made measurements in the cavern and again visited the site from which the bones were obtained.

It was determined that the bones are those of a young bull elk, probably a spike bull. The skull was obtained in fragmental pieces but the teeth were in excellent condition. The portions of antler obtained indicate that it was probably a spike. Associated with these bones were also obtained some smaller bones of birds. The find is of considerable interest and a special report will be prepared on the investigations.

The bones were found at a depth of approximately 100 feet vertical distance below the present travertine surface upon which the community of Mammoth is established. These bones were found 18 feet back in a small fissure which had an opening 2x2 feet and which after going back about 6 feet opened up into a crack or fissure which was about 3 feet wide and varied in height from $3\frac{1}{2}$ feet to an untold distance above to where it pinched down to a very narrow crack.

McCartney's cave consists of two dome-shaped room-like openings in the travertine, the larger room being about a 103 foot drop at a 38° angle with a maximum width in one direction of 46 feet and 38 feet in the other. A smaller opening with a maximum measurement of 8 feet leads into the lower room which is 42 feet deep and has a maximum width of 37 feet. It was off this lower room that the fissure in which the bones were found leads out into the travertine.

Park Naturalist Watson devoted the bulk of two days of his time on duty to research work on the Norris Geyser Basin. He now has a long manuscript which it will be necessary to condense for he has accumulated a great deal of information on the Norris Geyser Basin from the published literature. This is now confined to one accumulation of data on that geyser basin.

Early on the morning of March 6 Chief Park Naturalist Condon found four coyotes, some ravens and a magpie feeding on the remains of a bighorn sheep. This took place between the bridges across the Gardner River on the Mammoth-Gardiner road. He recovered the lower jaw of this animal and examined the leg and feet bones. It was determined that it was probably a young ewe which had been killed. The upper part of the skull could not be found for positive identification.

Park Naturalist Marler, who has been employed for research work on the geyser basins, has completed a review of all the literature and taken from it all data he could obtain on the Giant Geyser. He has accumulated this in one comprehensive report on that thermal feature. He has almost completed a similar assemblage of data on the Beehive Geyser and will continue his review of literature to assemble information of this type on

all the major geysers so that we will be able to present accurate information not only on the present activities of the thermal features but their past activities as far as man's observations have been able to determine. In addition to this work, Park Naturalist Marler has prepared special articles for Yellowstone Nature Notes.

On the 14th of the month two golden eagles, an American bald eagle, red shafted flickers and blue birds were seen in the Mammoth vicinity. On the 28th killdeer, red winged black birds and meadow larks had put in their appearance. The golden eagles had been frequenting the area in the vicinity of the old CCC camp.

Several trips were made over the terraces during the month. Observations of the thermal activities have indicated a number of pronounced changes have been in progress during the winter months. The Angel Terrace is at its lowest point from the standpoint of activity that has been observed in several years. There are two small springs active but during the 1952 summer there were five very active areas on this terrace. The Minerva and Palette extension are about as active as they were during the 1952 summer. The Blue Spring on the main terrace is active. Of unusual interest is a large new spring on the main terrace. This spring has created a large lake of water and is the most active feature that Chief Park Naturalist Condon can recall having seen on the hot spring terraces in the 23 years in which he has been making observations of this phenomena.

Mr. Winston Banko, Refuge Manager of the Red Rock Lakes Wildlife Refuge, was in the headquarters museum on March 31 and used the Yellowstone Park files and the research library to gather information for inclusion in a paper on trumpeter swan which he is preparing.

Library

Books received in March	10
Books in circulation in March	22
Books on indefinite loan	109
Magazines received during March	20
Pamphlets received during March	19

Natural History Association

The Natural History Association purchased the paper, stencils and other materials for the publication of the January-February issue of Yellowstone Nature Notes and multilithing of an index for Yellowstone Nature Notes for the period 1937 through 1951.

Mrs. Alice Quist was employed as clerk by the Association and worked 72 hours during the month. Mrs. Quist's duties have been typing the notes on the Norris Geyser Basin research work by Park Naturalist Watson, keeping records for the Association and working on the Yellowstone Park photographic albums and photographic files.

Book sales for the month by the Association were $68.64.

The final page proof of the Yellowstone Library and Museum Association sponsored Yellowstone Interpretive Series No. 3 booklet "Yellowstone Fishes" was sent to the printers early in the month. The "Story of Old Faithful Geyser" by George Marler which will be the Yellowstone Interpretive Series No. 4 publication was sent to the Edward Brothers, Lithoprinters early in March and no contract has yet been entered into for the publication of this pamphlet. Considerable time was spent early in the month reviewing the manuscript for this and preparing captions and illustrations for it.

Equipment and Supplies

During the month a quantity of worn out linoleum removed from quarters was turned over to the Naturalist Division for their use in seasonal park ranger naturalist quarters.

The 16mm Bell and Howell motion picture camera was sent to the Bell and Howell Co. for conversion so that it can be used with single sprocket sound motion picture film. This camera was shipped out on the 16th and it is expected that it will be returned in the near future. The Division acquired three typewriting tables during the month and a quantity of furniture for use in park ranger naturalist quarters. Most of the furniture obtained consisted of tables and some chests of drawers.

Photographic and Visual Aids

The Division prepared a summary of the audio-visual equipment needs for Yellowstone and submitted this on the 13th to the Regional Director in Omaha.

The Yellowstone movie "Geyserland" was returned from Omaha and this movie was sent on loan to Wayne Replogle, Wallace Hennessy and Platt National Park.

During the month 150 feet of 16mm colored motion picture film was exposed in making movie titles. The backgrounds used for these titles were Prang lithoprints of Moran paintings of Yellowstone subjects.

Darkroom Work

Fourteen 4x5 negatives were developed. No other darkroom work was accomplished during the month.

Proposed Outline of Work for April

1. The submission to the Regional Office of the Yellowstone Park interpretive development outline.

2. Issuance of the March-April Yellowstone Nature Notes.

3. The preparing and issuing to the 1953 seasonal personnel of instructional memoranda.

4. Submission of plans for the revision of the Old Faithful museum exhibits.

5. Editing of 16mm motion picture film.

6. Routine work of the Division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Mailed 4/8/53 Circulation (Region Two)
Director
Museum

REVISED MAY 1949.

Form No. 10-769
Reports
3m3 and 9m3

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

March
Month

1953
Year

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
Permanent	3		1	4
Temporary	1			1

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total			XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total			XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.		
(Give Name or Type) Total			XXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
(Give Name or Type) Total			XXXXXXXX

1,051
Number Visitors to Area this Month

Total Interpretive Contacts.

Interpretive Activities Outside of the Area:

		Govt. Publications	Sold	On Hand
3/12/53 Livingston Volunteer Fireman	100			

REMARKS:

Interpretive facilities closed for winter

*INSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE.
Please read them carefully.

NAME Standish A. Tudor
TITLE Chief Park Naturalist

THE PURPOSE OF THIS FORM IS TO SECURE AN ACCURATE RECORD OF INTERPRETIVE SERVICES FURNISHED VISITORS ON A UNIFORM BASIS FOR ALL N.P.S. AREAS.

EXPLANATION OF TERMS USED

"INTERPRETIVE" PERSONNEL ARE NATURALISTS OR RANGER NATURALISTS, HISTORIANS, AND HISTORICAL AIDES.
"ADMINISTRATIVE" ARE SUPERINTENDENTS, ASST. SUPERINTENDENTS, ETC., CALLED ON TO ASSIST WITH INTERPRETATION.
"OTHER" ARE RANGERS, CLERICAL PERSONNEL, AND THE LIKE WHO MAY BE CALLED IN TO HELP INTERPRET THE AREA.
"CONTACT" IS A CONNECTION, INTERPRETIVE IN CHARACTER, BETWEEN A PERSON AND A NATIONAL PARK SERVICE EMPLOYEE OR A PARK INTERPRETIVE DEVICE, EXCLUSIVE OF RADIO, BOOK, PAMPHLETS, AND THE LIKE.

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YELLOWSTONE NATIONAL PARK

UNITED STATES

DEPARTMENT OF THE INTERIOR

REPORT 9M2

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
APRIL 1953

General

Most of the activities of the Naturalist Division were confined to work in and around the headquarters museum for the month of April The weather for the month was inclement for the greater part with heavy snow storms occuring during the period of the 5th through the 8th and intermittent storms during the balance of the month. There were a few nice clear days around the 20th. There were only a few park visitors and not over a half-dozen visited the headquarters museum.

Administration

The activities of the Division were directed by Chief Park Naturalist Condon during the month.

Special Activities and Conferences

A meeting to discuss the proposed information center to be established at West Yellowstone was attended by Chief Park Naturalist Condon and Park Naturalist Elmore on April 3.

Regular staff meetings were attended on April 8 and April 22. A special meeting on roads problems was held in the Superintendent's office on April 21 and Chief Park Naturalist Condon attended this.

The interpretive development outline was completed and sent to the Regional Office on April 10.

Religious Services and Chapel Use

A special candlelight Easter service was held in the Yellowstone Park Chapel at 6:00 a.m. on Easter Sunday, April 5. Rev. Roukema of Livingston, Montana preached the sermon. The Mammoth-Gardiner adult choir and the Mammoth childrens choir provided the music. Pictures were made of this service and a tape recording was also taken. The service was not as well attended this year as in other seasons although the weather was very good.

The Chapel was used by the Youth Fellowship group on two Sundays during the month. The regular Sunday School service was held each Sunday morning at 10:30 a.m.

In-Service Training

Chief Park Naturalist Condon presented a 1½ hour in-service training program to 84 employees in the canteen building on April 30. Wildlife policies of the National Park Service and especially problems related to the excess elk populations and the consequent range abuse were reviewed.

Interpretive Services

Park Naturalist Watson presented a program to the Gardiner High School students on the geological history of Yellowstone National Park on April 7. There were 30 students and two teachers in attendance. Kodaslides were used for illustrative material.

Chief Park Naturalist Condon presented talks using movies to the Pee Wee baseball group in Livingston, Montana on the 3rd to 47 persons and on the 8th to the Big Timber Womens Club to 27 persons.

Onehundred and thirty Kodaslides were sent out on loan to Professor P. G. Worcester of the University of Colorado for use in presenting a series of talks on the geology of the national parks in the Rocky Mountain area.

The 16mm motion picture entitled "Geyserland" was loaned to Michael Sedar at Casper Junior College, Casper, Wyoming. This picture was shown eight times by Mr. Sedar to a total audience of 1640 people. The same movie was loaned to Mr. Robert Jonas of Moscow, Idaho. Mr. Jonas presented ten programs to a total of 610 people. Another movie on a trip around the park has been on loan for about a month to Wallace Hennessy of Modesto, California.

The Walt Disney True Life Adventure picture entitled "Water Birds" was presented to the members of the Mammoth community on the evening of the 27th. About 120 persons enjoyed this program.

Museum Activities and Exhibits

Park Naturalist Elmore devoted 12 days of his time during the month of April on preparation of exhibit plans for the West Yellowstone information center. After a number of conferences it was determined that nine panels covering the following subjects should be prepared: 1. roads, 2. accommodations, 3. campgrounds, 4. wild animals, 5. scenic features, 6. features along the road between the information center and Madison Junction, 7. information centers and museums, 8. regulations and 9. vandalism.

In addition to preparing plans for these nine panels, the preliminary layouts for two of them were completed.

One hundred and four items were catalogued and accessioned for the museum archives during the month. These were largely pictures and a goodly number of them were stereopticon views given to Yellowstone Park by Mrs. John M. Janssen of Laytonville, California and taken by Mr. Edgar H. Train, pioneer Helena, Montana photographer. These are a valued addition to the Yellowstone historical collection of materials.

Theodore Roeder, who is employed by the Yellowstone Library and Museum Association, has been working on the rehabilitation of the relief maps in the five park museums and has finished work on the maps in the museums at Mammoth, Norris and Madison. At the close of the month he was working on maps at Old Faithful.

Park Naturalist Elmore at the end of the month was completing work on the wayside moose exhibit and it is expected that this will be installed in the exhibit shelter early in May.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Watson was on duty all month except for 12½ hours annual leave. Park Naturalist Elmore was on duty all month. Clerk-stenographer Bettilee Proznick was on duty all month except for 4 hours annual leave taken on the 24th. Park Naturalist Marler worked up to and through April 22 when he resigned from his job. During this time Marler took 4 hours of sick leave on the 21st and resigned because of ill health and a desire to secure medical help and regain his health before the beginning of the active travel season so that he could continue his employment as a park naturalist.

Mrs. Alice Quist was employed by the Yellowstone Library and Museum Association during the month and worked 80 hours. Mr. Theodore Roeder was hired by the Association on the 6th to do some museum curatorial work.

The program for the employment of seasonals for the 1953 season was completed and all men were advised as to their entrance on duty dates, stations and quarters to which they would be assigned. There will be 4 men enter on duty June 1, 3 on June 3, 3 on June 10, 1 on June 11, 1 on June 12, 4 on June 14, 16 on June 19 and 1 on June 20. Information manuals and bibliographies covering Yellowstone Park literature were sent to all inexperienced men.

Research and Observation

Park Naturalist Watson completed his rough draft of information on the Norris Geyser Basin research project which he has been conducting the last two years and turned this over to Chief Park Naturalist Condon for review.

Mr. Winston Banko left Yellowstone late on April 1 after having spent two days here on trumpeter swan research work in the Yellowstone Park library.

Mr. James Caslick has proposed a research project on nesting water fowl along the Yellowstone River between Fishing Bridge and Canyon as a problem for his masters thesis. This matter has been reviewed with the Park Biologist and the Chief Ranger's Office and it is anticipated that Mr. Caslick will arrive May 25 to begin his research program.

Mr. Robert Cotner, who is being employed as a park ranger naturalist for the 1953 season, is desirous of conducting a research problem on the otter population and food habits of otter along the Gibbon, Madison and Firehole rivers in Yellowstone Park. Mr. Cotner expects to arrive in the park early in June to begin this study and will enter on duty as a park ranger naturalist June 19.

Messrs. Dolf and John Egger reported to the Chief Park Naturalist's office on April 2 that they had just seen a large gray wolf at about 10:00 a.m. across the highway in the vicinity of the elk trap trigger line at Gardiner. Dolf Egger, who has seen gray wolves before in Yellowstone and is well acquainted with the animal, said that there was no doubt that the animal seen was a large wolf.

The osprey at Eagle's Nest Rock were reported back at the nest site on April 1 and have been seen in that vicinity daily since then.

There was a large flock of red-winged black birds in the limber pine trees at Mammoth on the 3rd. These birds stayed around through the heavy snows which occurred on the 5th through the 8th. Since that time they have spread out to various marshland areas.

Park Naturalist George Marler completed papers covering the published information on eruptions of the Giant, Giantess, Beehive and Grand geysers. This compilation of data on these geysers will make it possible to more accurately tell what these geysers have done in the past and to some degree predict what might be expected in the future. In addition to these papers Mr. Marler prepared a paper on winter wildlife observations in the geyser basins.

The large spring on Main Terrace continued to be highly active throughout the month of April and is located in close proximity to the site where the large springs which were known as Periodic Lake were present in the 1870's. There has been a rejuvenation of activity in the old Palette Spring site and in addition the Cleopatra Spring has renewed its activities. The Prospect Springs on Prospect Terrace have dried up.

On April 19 Chief Park Naturalist Condon had the interesting experience of watching a bull elk still carrying his large antlers feeding under water on aquatic plants in the Firehole River. This animal had waded out into water which was part way up on his body. He would completely submerge his head under the water for a considerable length of time and would then come up with a large supply of algal growth from the stream bottom. This feeding process was watched for several minutes and was still going on when the observer left the site.

On the 20th 103 elk and 11 bison were counted in the meadows on the Madison River immediately below Madison Junction.

The Giant Geyser gives evidence of having been erupting at rather frequent intervals all winter. The Splendid Geyser has erupted on a number of occasions but the Brilliant Pool is flooding heavily and this has disrupted almost entirely the activity of the Daisy Geyser.

The Dragons Mouth in the Mud Volcano area had experienced a surge in activity during the winter months and as a result has washed away a substantial section of the asphalt walk and a stone bridge which crossed near the Dragons Mouth. The drainage level for this feature has been lowered several inches with the result that the character of activity at this point is pronouncedly different than it has been for many years. Considerable

work and expense will be involved in repairing the damage to the walk done by this thermal feature.

On field trips into the Lamar Valley, to the Upper Geyser Basin and to Lake wildlife in large numbers has been observed. Sandhill cranes have been seen regularly near Nymph Lake, in Elk Park, in the Lower Geyser Basin, below Dragons Mouth in Hayden Valley and just above Dragons Mouth in Hayden Valley. Trumpeter swan have been frequenting the Blacktail Lakes, ponds in the Lamar Valley, the Yellowstone River in Hayden Valley and the Twin Lakes area.

Grizzly bear have been reported by the snow removal crews and others traveling the highways. A grizzly mother and three yearlings were seen by Park Naturalists Elmore and Watson on the Gibbon River about one mile above Terrace Spring and a large grizzly was seen on the Firehole River near the mouth of Nez Perce Creek. One grizzly bear has been frequenting the Mammoth dump toward the end of the month.

Bison have been numerous along the road in the Lower Geyser Basin, Upper Geyser Basin and in the Madison Junction area and there have been several small herds near the road in the Lamar Valley. One buffalo cow with twin calves was observed by Dave Pierson, on April 29, in the vicinity of Slough Creek.

Moose have been seen in the insect infestation area with regularity and also in the vicinity of the Hoodoos.

The black bear have been frequenting the roadsides near the Petrified Tree road area and one large brown-colored black bear has been on the road near Crystal Spring. This bear was first observed and photographed by Chief Park Naturalist Condon when he came out of hibernation in April, seven years ago and every year since then this same bear has been seen late in the fall and early in the spring in this same general vicinity.

Library

Books received in April	8
Books in circulation in April	25
Books on indefinite loan	109
Magazines received during April	18
Pamphlets received during April	12

A large number of books have been removed from the stacks and periodicals have been assembled and it is anticipated that these will be sent to the Dieter Book Binders in May.

Natural History Association

The March-April issue of Yellowstone Nature Notes was completed and placed in the mail on April 27. In addition to preparing Nature Notes, 200 copies of an index to Yellowstone Nature Notes for the period 1937-52

were completed. The covers were printed and the text was multilithed. These copies are now available for distribution to persons and institutions interested in having copies.

Fifteen hundred labels for use in mailing books and other items were printed by Park Naturalist Watson during the month.

Mrs. Alice Quist was employed by the Association for a period of 80 hours during the month of April. She prepared book stock for issuance to field stations, handled mail sales during the month for the association and worked on the photographic albums and negative files. In addition to this, she typed a rough draft manuscript of Mr. Watson's material on the Norris Geyser Basin.

Mr. Ted Roeder was employed by the Association to do the renovating work on the relief maps at the five park museums. Mr. Roeder began work on April 6. The Association also purchased supplies and materials for Mr. Roeder's use in making these map repairs.

Chief Park Naturalist Condon spent several days in editing and preparing three motion pictures for duplication. The Association sent these motion pictures to Hollywood, California where four copies of the movie entitled "Wild Animal Heaven", four copies of the one entitled "The Geysers, Mud Pots and Pools of Mysterious Yellowstone" and two copies of the one entitled "Geyserland" are being made. It is anticipated that these will be returned to Yellowstone early in May. The reels are each about 1600 feet long and will have a projection time of about 40 minutes. The Association is spending about $2,000 on this project. It is planned that these motion pictures will be used for the campfire programs in Yellowstone Park for the coming season for three nights every two weeks at each station.

The matter of the Association subscribing to a membership in the International Union for Nature Protection was taken up with the board of directors and it was determined that the association would not be interested in investing $50 in a membership in this organization but that it would be willing to share a membership with other natural history associations providing they wanted to make a joint membership subscription.

The association also decided not to handle the national parks and monuments notepaper produced under the auspices of the National Parks Association. This is quality merchandise but does not fit into the type of stock being handled by the Yellowstone Library and Museum Association.

Equipment and Supplies

The 16mm Bell and Howell motion picture camera which was sent to the Bell and Howell laboratories for alterati n so that it would handle sound type single sprocket film was returned at the end of the month and seems to operate satisfactorily.

Photographic and Visual Aids

One hundred thirty 2x2 Kodaslides were loaned to Professor P. G.

Worcester of the University of Colorado on April 8. A set of slides excess to the needs of Yellowstone were selected from our collection and sent to Dr. Edith Ebers, a German geologist. Thirty five slides were sent to Mestons for duplication and 100 new slides were added to the Yellowstone Park master Kodaslide file. A set of slides on fire protection and winter patrols was loaned to Lake Mead Recreational area and there are 300 additional Kodaslides about ready to place in the master file. The complete set of 360 slides sent on loan to Jack Clark at Duckwater, Nevada was returned during the month.

Motion pictures were out on loan to Robert Jonas, Michael Sedar and Wallace Hennessy.

During the month 40 Kodachrome 35mm pictures were exposed and 200 ft. of colored motion picture film.

Chief Park Naturalist Condon spent five days editing 16mm motion picture film.

Proposed Outline of Work for May

1. Publish the May-June issue of Yellowstone Nature Notes.
2. Submit plans for the revision of the Old Faithful museum exhibits.
3. Edit 16mm motion picture film.
4. Put sound on 16mm movies.
5. Get quarters and museums ready for the 1953 season.
6. Get book sales stock of the YLPMA to the field stations.
7. Carry on the routine work of the division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

to Region Two 5-11-53 - 8 h m

REVISED MAY 1949.

Form No. 10-769
Reports
8m3 and 9m3

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

April
Month
1953
Year

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
Permanent	3		1	4
Temporary	1			1

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total			XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total			XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.		
(Give Name or Type) Total			XXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
(Give Name or Type) Total			XXXXXXXX

1970
Number Visitors to Area this Month

Total Interpretive Contacts.

Interpretive Activities Outside of the Area:	Govt. Publications	Sold	On Hand
Gardiner - 32			
Livingston Pee Wee Baseball group - 47			
Big Timber Womens Club - 27			
Casper, Wyo. - 1640			
Moscow, Idaho - 610			

REMARKS:

*INSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE.
Please read them carefully.

NAME [illegible]
TITLE Chief Park Naturalist

THE PURPOSE OF THIS FORM IS TO SECURE AN ACCURATE RECORD OF INTERPRETIVE SERVICES FURNISHED VISITORS ON A UNIFORM BASIS FOR ALL N.P.S. AREAS.

EXPLANATION OF TERMS USED

"INTERPRETIVE" PERSONNEL ARE NATURALISTS OR RANGER NATURALISTS, HISTORIANS, AND HISTORICAL AIDES.
"ADMINISTRATIVE" ARE SUPERINTENDENTS, ASST. SUPERINTENDENTS, ETC., CALLED ON TO ASSIST WITH INTERPRETATION.
"OTHER" ARE RANGERS, CLERICAL PERSONNEL, AND THE LIKE WHO MAY BE CALLED IN TO HELP INTERPRET THE AREA.
"CONTACT" IS A CONNECTION, INTERPRETIVE IN CHARACTER, BETWEEN A PERSON AND A NATIONAL PARK SERVICE EMPLOYEE OR A PARK INTERPRETIVE DEVICE, EXCLUSIVE OF RADIO, BOOK, PAMPHLETS, AND THE LIKE.

CONDUCTED TRIPS: CARAVAN OR HIKING TRIPS CONDUCTED BY N.P.S. PERSONNEL FOR GENERAL FIELD ACTIVITIES. TRIPS SPECIFIC TO RUINS AND HISTORICAL HOUSES SHOULD BE REPORTED ON LINE 3. BE SPECIFIC UNDER OTHER TRIPS AS TO TYPE OF CONDUCTED TRIP SUCH AS BOAT, SKI, OR OTHER ORGANIZED ACTIVITY.

TALKS: REGULARLY SCHEDULED TALKS WITHIN SERVICE AREAS PRESENTED EITHER BY SERVICE PERSONNEL OR BY OUTSIDE SPEAKERS UNDER SERVICE SPONSORSHIP. NOT TO INCLUDE ANY TALKS MADE AS PART OF A CONDUCTED TRIP OR OTHER INTERPRETIVE DEVICE.

ATTENDED INTERPRETIVE STATIONS: ACTUAL COUNT OF PERSONS USING THE STATION (LIBRARY, CONTACT STATION, EXHIBIT ROOMS, STUDY COLLECTIONS, ETC.), COUNT BEING MADE BY SERVICE PERSONNEL IN ATTENDANCE. CHECKING STATIONS OR OFFICES DISPENSING INFORMATION RATHER THAN INTERPRETIVE SERVICE SHOULD NOT BE CONSIDERED AS ATTENDED INTERPRETIVE STATIONS.

INFORMATION IS FACTUAL MATTER RELATIVE TO PHYSICAL DEVELOPMENTS, PHYSICAL FACILITIES, GEOGRAPHIC LOCATIONS, RULES AND REGULATIONS OF THE AREA, AND THE UTILIZATION OF THESE FACILITIES BY THE PUBLIC. IT INCLUDES DATA ON ROUTES AND ROADS, HOTEL ACCOMMODATIONS, BUS AND TRAIN SCHEDULES, AND SIMILAR MATTERS OUTSIDE OF THE AREA REGARDING WHICH VISITORS INQUIRE.

INTERPRETATION IS AN ACCURATE EXPLANATION OF THE MANIFESTATIONS OF NATURAL HISTORY AND HUMAN HISTORY FOUND WITHIN THE AREA.

UNATTENDED INTERPRETIVE DEVICES: UNDER THIS HEADING SHOULD BE ESTIMATED AS ACCURATELY AS POSSIBLE ALL VISITORS USING EXHIBITS-IN-PLACE, ORIENTATION STATIONS, AND OVERLOOKS, WAYSIDE SHELTERS HOUSING INTERPRETIVE DEVICES TRAILSIDE EXHIBITS, SELF-GUIDING NATURE TRAILS AND AUTO CARAVAN ROUTES, AND THE LIKE AT WHICH SERVICE PERSONNEL IS NOT ON DUTY. HISTORICAL AREAS WILL FIND IN MANY CASES THAT THIS SECTION OF THE FORM DOES NOT APPLY.

INTERPRETIVE ACTIVITIES OUTSIDE THE AREA: THIS INCLUDES ALL INTERPRETIVE ACTIVITIES PERFORMED OR PROVIDED BY SERVICE PERSONNEL OUTSIDE THE AREA.

INSTRUCTIONS FOR FILLING IN THE FORM

(FILL IN ONLY THOSE BLOCKS THAT APPLY)

COLUMN 1 RECORDS THE NUMBER OF TRIPS CONDUCTED DURING THE MONTH, THE NUMBER OF TALKS MADE, AND THE NUMBER OF INTERPRETIVE STATIONS AND DEVICES OPEN TO THE PUBLIC. THE NUMBER OF DAYS THE STATIONS AND DEVICES WERE AVAILABLE MAY BE INDICATED UNDER "REMARKS".

COLUMN 2 INDICATES THE TOTAL ATTENDANCE OF VISITORS AT EACH CLASS OF TRIP, TALK, STATION, OR DEVICE. PLEASE TOTAL EACH COLUMN IN EACH BLOCK. SPACE FOR A TOTAL OF ALL INTERPRETIVE CONTACTS IS PROVIDED.

COLUMN 3 SHOWS THE AVERAGE AMOUNT OF TIME OF EACH CLASS OF SERVICE, OR THE AVERAGE TIME SPENT BY VISITORS IN USING EACH INTERPRETIVE DEVICE. SOME STUDY OF VISITOR HABITS MUST BE MADE WITH PERIODIC CHECKING AT OCCASIONAL INTERVALS.

INTERPRETIVE ACTIVITIES OUTSIDE OF THE AREA ARE INCLUDED ON THIS FORM AS A MATTER OF RECORD ONLY. THEY SHOULD NOT BE INCLUDED IN THE TOTALS. GIVE TYPE OF ACTIVITY; SUCH AS TALK, BROADCAST, EXHIBIT, ETC.; DATE; ATTENDANCE; AND OTHER DATA NECESSARY TO DESCRIBE THE ACTIVITY.

TOTALS: TOTAL ATTENDANCE SHOWS THE ACTUAL NUMBER OF VISITORS WHO TOOK ADVANTAGE OF THE VARIOUS INTERPRETIVE SERVICES OFFERED. SINCE EACH VISITOR MAY USE SEVERAL DIFFERENT INTERPRETIVE DEVICES, THIS ATTENDANCE MAY RECORD A TOTAL CONSIDERABLY IN EXCESS OF THE VISITORS REGISTERED IN THE AREA DURING THE SAME PERIOD. FOR COMPARISON, THE TOTAL NUMBER OF VISITORS TO THE AREA DURING THE MONTH SHOULD BE SHOWN.

GOVERNMENT PUBLICATIONS: (FOR HISTORICAL AREAS) INDICATE BY NAME OR NUMBER THE COPIES SOLD AND ON HAND.

THIS REPORT DUE: FROM ALL NATIONAL PARK SERVICE AREAS PROVIDING INTERPRETIVE SERVICES. RETAIN ORIGINAL IN AREA FILES. IN AREAS EMPLOYING NATURALIST THIS REPORT TO BE ATTACHED TO HIS MONTHLY NARRATIVE REPORTS. IN OTHER AREAS IT SHOULD BE PRESENTED AS A SEPARATE REPORT WITH COPIES FOR COORDINATING SUPERINTENDENT, REGIONAL DIRECTOR AND DIRECTOR FORWARDED THROUGH ADMINISTRATIVE CHANNELS. DATE DUE EACH MONTH IN ACCORDANCE ADMINISTRATIVE MANUAL, VOL. 15, CHAPTER 8 (REPORT 8M3) AND 9 (REPORT 9M3).

207-02.4

NATIONAL PARK SERVICE
1953 JUN 9 AM 8 45
YELLOWSTONE NATIONAL PARK

ROGERS
HAMT
JOFFE
ANDERSON
STANTON
GABBERT
PROPER
NATTSON
CONDON
BROWN
CHAPMAN
MCCOMAS
EDWARDS
GARRY
WOHLBRANDT
ROBINSON
WIGGINS
McMULLIN

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

REPORT 9M2

MONTHLY REPORT OF THE NATURALIST DIVISION
MAY 1953

General

The Naturalist Division staff for the month of May was confined to permanent personnel with the exception of the employment of one seasonal naturalist near the month end. The work was largely devoted to getting everything ready for the active program which is to begin in June. The program of activities was planned and awaits final approval. The work schedules for several stations were worked up and other preparations for the full-time employment of seasonal personnel made. Park Naturalist Watson devoted a great deal of his energy to the preparation of visual aids materials and Park Naturalist Elmore worked on wayside exhibits, on seasonal naturalist quarters and on the acquisition of furnishings for these quarters.

The weather throughout the month of May was not conducive to bringing in heavy travel since the weather was inclement for the greater part. Records indicate that there were about five days during the month when the weather was clear and pleasant.

Administration

Chief Park Naturalist Condon was in charge of the division's activities throughout the month and participated in all phases of the work.

Special Activities and Conferences

Park Naturalist Watson attended the Safety Committee meeting on the 8th of the month.

All of the park naturalists attended the Staff Meeting which was held on May 20 and all were in attendance at the Absaroka Conservation Committee meeting which was held on the 17th.

Park Naturalist Watson worked with a crew supplied by the Engineering Division to put informational signs which were mounted on concrete bases out into the geyser basins on May 19.

Chief Park Naturalist Condon made field trips with Park Engineer Wohlbrandt on the 5th and 15th for the purpose of laying out locations for the installation of wooden duckwalk and to inspect the damage done to the path at the Dragons Mouth in the Mud Volcano area. The Engineering Division is going to install duckwalk at the Steady Geyser, White Dome Geyser, Great Fountain Geyser, replace two sections of walk with wooden walk in the Biscuit Basin, install wooden walk at Daisy Geyser, Punch Bowl Spring, Spouter

Geyser and at the parking area in the Black Sand Basin. In addition to this there will be several hundred feet of walk placed on Geyser Hill.

Arrangements were made during the month for the Park Service to participate in the Montana Conservation Council Caravan which is to arrive in Yellowstone for a one day trip across the north side on June 25.

In addition to this correspondence was carried on with the Association for the Blind and arrangements made for Chief Park Naturalist Condon to conduct the blind party on a trip around the park on July 27.

Considerable time was spent in preparing information for publishers, and one job which required considerable research was the revision of information for the Encyclopedia Britannica. This was completed and submitted to them on May 8.

Chief Park Naturalist Condon attended the Management Improvement Committee meeting which was held on May 11.

The Engineering Division provided two loads of fresh gravel behind the museum and this was leveled by the Naturalist Division and has improved this parking area 100%.

Dr. Oliver B. Cope, U. S. Fish and Wildlife Service, was in the Chief Park Naturalist's office on the 12th for a conference on research problems and a discussion of the bird colonies nesting on the Molly Islands.

Mr. James Simon of the Jackson Hole Wildlife Park and Walt Disney Movie Producers stopped in on the 27th for a short visit.

Mr. H. Bradford of Butte, Montana was in the Chief Park Naturalist's office on May 28 and at that time ran off for those interested a movie on Yellowstone which he has spent several years making. Mr. Bradford had 2800 feet in his picture and much of the footage was very good. The picture tended to be too long, however, and although the footage was good of some subjects there was probably too much of certain things. Mr. Bradford has made up his titles and has a very interesting historical prologue to introduce Yellowstone National Park to his audience. The opportunity to see this picture was appreciated by those who saw it.

A number of informational signs which were taken down last fall for repairs and cleaning were put up in the field during the month.

Religious Services and Chapel Use

The regular Sunday School services for the Mammoth community were held in the Yellowstone National Park Chapel each Sunday at 10:30 a.m. up to May 17. On this date the last Sunday School service was held and this type of service will not be resumed until next fall.

Rev. Lewis Ortmayer of Livingston, Montana conducted an interdenominational Protestant service on May 3 at 7:30 p.m. and Rev. Arthur W. Seebart conducted a similar service at 7:30 p.m. on the evening of May 21. The

Youth Fellowship organization held meetings in the Yellowstone National Park Chapel at 6:30 p.m. on May 3 and May 10.

In-Service Training

Park Naturalists Watson, Elmore and Condon attended portions of the Ranger Conference sessions which were held May 12, 13, 14 and 15. Park Naturalist Condon presented a talk to the group on the activities of the Naturalist Division for the 1953 season.

The regular Weekly News Letter was prepared by the Naturalist Division for distribution to interested persons.

Interpretive Services

Park Naturalist Elmore presented a talk on the flora of the park to the high school in Gardiner on the 14th. There were 34 students and two teachers in attendance. Mr. Elmores presentation lasted for about 1½ hours. Mr. Elmore also projected the picture "Wild Animal Heaven" to the Absaroka Conservation Committee group at 8:00 p.m. on the evening of the 16th. There were 40 persons in attendance at this program.

The movie "Geyserland" was loaned to the Region Three office on the 11th and returned to the park near the close of the month. Another copy of this movie "Geyserland" was sent to Senior Park Naturalist Wayne Replogle at Lawrence, Kansas and was shown on the 22nd to the Lawrence Kiwanis group with 110 persons being in attendance. Chief Park Naturalist Condon ran the movie "Geyserland" and a movie on clouds to an audience of about 115 persons in the canteen on the evening of May 13. The motion picture "Wild Animal Heaven" was shown to the community at the school picnic on the 22nd and 104 persons were present. This same picture was shown by Chief Park Naturalist Condon to the members of the St. Andrew's Episcopal Church in Livingston, Montana on May 24 with about 100 persons in attendance.

Museum Activities and Exhibits

Park Naturalist Elmore spent several days working on the moose exhibit in the preparation of casts of tracks of animals, exhibit panel trays showing the droppings of deer, elk and moose and the preparation of labels for these. The old beaver exhibit which the new moose exhibit replaces was dismantled and the exhibit materials stored.

The wayside exhibits in the field were opened as follows: Firehole exhibit - May 11, Artist Point exhibit - May 11, Norris foyer exhibit - May 15, Obsidian Cliff exhibit - May 26. The Mammoth museum opened May 1 and the Old Faithful museum May 27.

A large black bear which it was necessary to kill at Canyon was obtained on May 18. This animal was skinned on the 19th and the hide sent to Lentfer Brothers, taxidermist, in Livingston, Montana for tanning and addition to the Yellowstone Park study skin collection. A black bear cub was killed by a tourist's car on May 26 near the Petrified Tree road. This cub was brought to Mammoth by Larry Murray. It was skinned out and it too has

been sent to Lentfers for tanning and addition to the study skin collection. (Both of these hides are being prepared and tanned so if they are ever needed for life size mounts they can be made up into one.)

Jay Kittams, small son of Biologist Walter Kittams, found a beautiful chalcedony knife on the hill behind the administration building on May 21. This was turned in to the museum on the 22nd and has been accessioned as an Indian artifact.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Watson was on duty all month, except for 2 hours of annual leave. Park Naturalist Elmore was on duty all month except for 1½ days of sick leave. Clerk-stenographer Bettilee Proznick was on duty all month except for 13 hours of annual leave. Theodore S. Roeder was employed as a Park Ranger Naturalist IGS4 and entered on duty May 27.

Mrs. Alice Quist was employed as a clerk by the Yellowstone Library and Museum Association and Mr. Ted Roeder was employed during the month until the 27th on museum preparatory work.

Research and Observation

Park Naturalist Watson reports seeing a starling in the vicinity of his house on the 19th, and other birds of interest which are reported by him are: the mourning dove seen on the 7th and 27th in the vicinity of the residences below the hill. The pale golden finches have been seen and the sora rail has been reported by Kent Watson and Wilson Condon on the small glacial ponds below Mammoth.

(On the 27th Park Naturalist Elmore watched and photographed two grizzly bears near Bridge Bay. Mr. Elmore and Ken Armitage were able to approach within 60 feet of these animals without them paying any appreciable attention to them. Both bears were busily digging out mouse nests and field mice in the sagebrush grassland meadow area.)

Mr. Elmore clocked a female merganser along the Firehole River for better than 1/4 of a mile at a speed of 46 miles per hour as she flew in an effortless manner up stream.

(On June 1 Park Naturalists Watson and Condon saw 12 horned grebe on the little lake above the Mud Geyser.)

(On trips to the Lamar Valley taken on the 2nd, 4th and 6th large numbers of bison, elk and other animals were seen.) On the 2nd 157 bison were counted between Mammoth and Soda Butte. The twin calves reported by Dave Pierson were found on Slough Creek and photographed in movies with their mother. (On this same date, the 2nd, 18 antelope were observed up as far as Soda Butte on Soda Butte Creek.) On the 4th a large bull buffalo which was lying near the road in the Horseshoe was disturbed, got up and crashed head-on into a telephone pole. The animal appeared to be at least partially blind. On this date 13 calves were counted with small bands of buffalo in the Horseshoe area.

There were lots of black bears along the loop road by the months close. A total of 28 different animals have been seen on trips around the loop. (On the 4th photographs consisting of black and white, Kodaslides and 16mm movies were made of the willow and aspen plots in Pleasant Valley and near Yancey's Hole.)

Mr. Robert Cotner was in the Chief Park Naturalist's office during the month to discuss the proposed research on otter (mentioned in last month's report.) Mr. James Caslick was in the office on the 26th and went over the water fowl research study which he is going to conduct on the Yellowstone River between Lake and Canyon.

Movies and stills were made of drumming Richardson's grouse in Mammoth on the 13th. On the 17th this same species of bird was watched for some time in their drumming activities and photographed on the Dunraven Pass road. There were several birds in this vicinity.

Mr. Kenneth Armitage, who has been operating under a collaboratorship appointment with the National Park Service and conducting a research study on the limnology of the Firehole River returned to the park on May 2 and has been conducting his research out of Old Faithful since that date.

Library

Books received in May	6
Books in circulation in May	15
Books on indefinite loan	108
Magazines received during May	16
Pamphlets received during May	15

Natural History Association

Mrs. Alice Quist was employed 54 hours during the month by the Association. Mr. Ted Roeder was employed throughout the month up to and through the 26th on museum preparatory work. Mr. Roeder devoted virtually all of his time to the renovation of the relief maps in the various park museums.

(Book sales by the Association in May were as follows:

Employee	$3.29	
Wholesale.	40.00	
Mail	28.70	
Museum	30.70	(In May 1952 $53.00)
	$102.69	)

The 4,500 copies of "Yellowstone Fishes" which the Association has had printed by the Livingston Enterprise were received here during the month and the cost to the Association for the printing of this revised edition was $1,511, delivered at Mammoth. (Copies of this publication were sent to the Regional Director and the Director's office. Complimentary copies were also sent to the author.)

The book stocks for all field stations were set up by the Association clerk and some of these were delivered to field stations. A book entitled "A Trip Through Yellowstone Park" was sent to the Association for review by Mr. Max Winkler. It was determined that this was not a desirable sales item but it was placed in the Yellowstone Park library. The book is a musical treatment of a trip to Yellowstone. The 16mm motion pictures which were sent out last month for duplication to the Color Reproduction Co. in Hollywood were received back on May 16. Each of these copies were reviewed and this job was completed on the 21st. The film was then sent out for magnetic sound striping - four reels to Bell and Howell and three reels to the Reeves Soundcraft Corp. Three reels of these movies have been left without the sound striping being put on them at least for the present. The cost to the Association for duplicating the movies has been $1,622.86. There will be an additional several hundred dollars cost for the sound striping of this film. The copies of this which have been shown to audiences have been well received by them.

The galley proof for "The Story of Old Faithful Geyser" was received from Edwards Brothers printers during the month. This was reviewed and corrected and sent back to the printer on May 19. It is anticipated that this publication will be on hand early in June for sale at museum information desks.

The Association purchased a smooth bore 22 rifle and a supply of bird shot for use in this gun and also a supply of ammunition for use in the 410 gauge shotgun. These are to be used for collecting bird specimens for addition to the Yellowstone Park study skin collection on birds.

Equipment and Supplies

Projection bulbs, three new projection screens and photographic paper were ordered during the month. The janitorial supplies for the three museums were purchased and a requisition was put in for three new Kodaslide Spencer projectors, 750 watt, and two new Bell and Howell 16mm motion picture projectors. It is hoped that these requisitions can be honored and that this equipment will be purchased.

Park Naturalist Watson during the month made a lighted slide sorting table, a projection viewing box and a slide file illuminator for use in working with the Kodaslides.

Park Naturalist Elmore spent considerable time on equipment and supply inventories and in getting property into the cabins for naturalist quarters and acquiring furniture for their use.

A partition and door were installed in the Old Faithful museum by Carpenter Al Bowman and this now provides us in this building with an adequate storage space for the book storage stock for the Yellowstone Library and Museum Association.

Arrangements have been made to get at least two double cabins. These will be placed, one at West Thumb and one at Old Faithful early in June.

Photographic and Visual Aids

The Division purchased a supply of 16mm motion picture film, 35mm Kodachrome film and black and white cut film for use during the coming season.

Film Exposed

300 feet - 16 mm Kodachrome
2 rolls - 36 exposure Kodachrome, 35mm
32 - 4x5 black and white

Darkroom Work Accomplished

32 4x5 black and white film developed
100 8x10 enlargements made

Pictures were made of range study plots, the Mammoth school children, the retirement pictures of Ben Arnold and a number of wildlife pictures. 8x10 enlargements were made of many of these and 21 8x10 enlargements were sent to the Great Falls Tribune on May 15 for their use in illustrating a pictorial edition they are preparing.

During the month several hundred Kodaslides which had been out on loan during the winter months were returned and these have been placed in the files. One hundred Kodaslides have been bound and duplicate Kodaslides have been added to the field sets. Each of these field sets now has 655 slides on natural history subjects. One hundred and sixty six duplicate slides were received back from Mestons. These were paid for by the Yellowstone Library and Museum Association.

The set of 12 duplicate slides on vandalism were sent on May 25 to Art Jacobson, Superintendent of the Washington Carver National Monument.

Some time was spent in experimenting with the synchronizing of music with the narrated sound on the magnetic type movies. To date a musical background has not been found which works satisfactorily.

Proposed Outline of Work for June

1. Publish May-June issue of Yellowstone Nature Notes.

2. Work on plans for the revision of the Old Faithful Museum.

3. Put narration on the magnetic sound tracks of the new 16mm motion picture film.

4. Hold in-service training sessions for employees.

5. Open all museums for public use.

6. Initiate and operate a full interpretive program.

7. Begin all book sales at museums.

8. Complete arrangements and issue the program for the religious services for the 1953 season

9. Edit 16mm motion picture films.

10. Make pictures of natural history subjects and Park Service activities.

11. Provide service for special parties.

12. Carry on the routine activities of the Division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

Reg. Rec. 6/9/53

REVISED MAY 1949.

Form No. 10-769
Reports
m3 and 9m3

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

UMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
ermanent	3		1	4
emporary	1			1

May
Month

1953
Year

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total			XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total			XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.		
Mammoth Museum (Monday through Friday)	1	1,086	
Old Faithful Museum - opened May 27	1	2,240	
(Give Name or Type) Total		3,326	XXXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
Firehole Canyon exhibit - opened May 11	1	2,676	2 min.
Artist Point - opened May 11	1	7,775	4 min.
Norris Museum Foyer - opened May 15	1	7,647	
Obsidian Cliff - opened May 26	1	382	3 min
		~~18,480~~	
(Give Name or Type) Total		18,480	XXXXXXXX

38,237
Number Visitors to Area this Month

21,806
Total Interpretive Contacts.

nterpretive Activities Outside of the Area:	Govt. Publications	Sold	On Hand
eplogle, Lawrence Kans. - 110			
. Andrew's Church, Livingston - 100			
ardiner High School - 40			

EMARKS:

INSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE.
Please read them carefully.

NAME Davidson
TITLE Chief Park Naturalist

THE PURPOSE OF THIS FORM IS TO SECURE AN ACCURATE RECORD OF INTERPRETIVE SERVICES FURNISHED VISITORS ON A UNIFORM BASIS FOR ALL N.P.S. AREAS.

EXPLANATION OF TERMS USED

"INTERPRETIVE" PERSONNEL ARE NATURALISTS OR RANGER NATURALISTS, HISTORIANS, AND HISTORICAL AIDES.
"ADMINISTRATIVE" ARE SUPERINTENDENTS, ASST. SUPERINTENDENTS, ETC., CALLED ON TO ASSIST WITH INTERPRETATION.
"OTHER" ARE RANGERS, CLERICAL PERSONNEL, AND THE LIKE WHO MAY BE CALLED IN TO HELP INTERPRET THE AREA.
"CONTACT" IS A CONNECTION, INTERPRETIVE IN CHARACTER, BETWEEN A PERSON AND A NATIONAL PARK SERVICE EMPLOYEE OR A PARK INTERPRETIVE DEVICE, EXCLUSIVE OF RADIO, BOOK, PAMPHLETS, AND THE LIKE.

CONDUCTED TRIPS: CARAVAN OR HIKING TRIPS CONDUCTED BY N.P.S. PERSONNEL FOR GENERAL FIELD ACTIVITIES. TRIPS SPECIFIC TO RUINS AND HISTORICAL HOUSES SHOULD BE REPORTED ON LINE 3. BE SPECIFIC UNDER OTHER TRIPS AS TO TYPE OF CONDUCTED TRIP SUCH AS BOAT, SKI, OR OTHER ORGANIZED ACTIVITY.

TALKS: REGULARLY SCHEDULED TALKS WITHIN SERVICE AREAS PRESENTED EITHER BY SERVICE PERSONNEL OR BY OUTSIDE SPEAKERS UNDER SERVICE SPONSORSHIP. NOT TO INCLUDE ANY TALKS MADE AS PART OF A CONDUCTED TRIP OR OTHER INTERPRETIVE DEVICE.

ATTENDED INTERPRETIVE STATIONS: ACTUAL COUNT OF PERSONS USING THE STATION (LIBRARY, CONTACT STATION, EXHIBIT ROOMS, STUDY COLLECTIONS, ETC.), COUNT BEING MADE BY SERVICE PERSONNEL IN ATTENDANCE. CHECKING STATIONS OR OFFICES DISPENSING INFORMATION RATHER THAN INTERPRETIVE SERVICE SHOULD NOT BE CONSIDERED AS ATTENDED INTERPRETIVE STATIONS.

INFORMATION IS FACTUAL MATTER RELATIVE TO PHYSICAL DEVELOPMENTS, PHYSICAL FACILITIES, GEOGRAPHIC LOCATIONS, RULES AND REGULATIONS OF THE AREA, AND THE UTILIZATION OF THESE FACILITIES BY THE PUBLIC. IT INCLUDES DATA ON ROUTES AND ROADS, HOTEL ACCOMMODATIONS, BUS AND TRAIN SCHEDULES, AND SIMILAR MATTERS OUTSIDE OF THE AREA REGARDING WHICH VISITORS INQUIRE.

INTERPRETATION IS AN ACCURATE EXPLANATION OF THE MANIFESTATIONS OF NATURAL HISTORY AND HUMAN HISTORY FOUND WITHIN THE AREA.

UNATTENDED INTERPRETIVE DEVICES: UNDER THIS HEADING SHOULD BE ESTIMATED AS ACCURATELY AS POSSIBLE ALL VISITORS USING EXHIBITS-IN-PLACE, ORIENTATION STATIONS, AND OVERLOOKS, WAYSIDE SHELTERS HOUSING INTERPRETIVE DEVICES TRAILSIDE EXHIBITS, SELF-GUIDING NATURE TRAILS AND AUTO CARAVAN ROUTES, AND THE LIKE AT WHICH SERVICE PERSONNEL IS NOT ON DUTY. HISTORICAL AREAS WILL FIND IN MANY CASES THAT THIS SECTION OF THE FORM DOES NOT APPLY.

INTERPRETIVE ACTIVITIES OUTSIDE THE AREA: THIS INCLUDES ALL INTERPRETIVE ACTIVITIES PERFORMED OR PROVIDED BY SERVICE PERSONNEL OUTSIDE THE AREA.

INSTRUCTIONS FOR FILLING IN THE FORM

(FILL IN ONLY THOSE BLOCKS THAT APPLY)

COLUMN 1 RECORDS THE NUMBER OF TRIPS CONDUCTED DURING THE MONTH, THE NUMBER OF TALKS MADE, AND THE NUMBER OF INTERPRETIVE STATIONS AND DEVICES OPEN TO THE PUBLIC. THE NUMBER OF DAYS THE STATIONS AND DEVICES WERE AVAILABLE MAY BE INDICATED UNDER "REMARKS".

COLUMN 2 INDICATES THE TOTAL ATTENDANCE OF VISITORS AT EACH CLASS OF TRIP, TALK, STATION, OR DEVICE. PLEASE TOTAL EACH COLUMN IN EACH BLOCK. SPACE FOR A TOTAL OF ALL INTERPRETIVE CONTACTS IS PROVIDED.

COLUMN 3 SHOWS THE AVERAGE AMOUNT OF TIME OF EACH CLASS OF SERVICE, OR THE AVERAGE TIME SPENT BY VISITORS IN USING EACH INTERPRETIVE DEVICE. SOME STUDY OF VISITOR HABITS MUST BE MADE WITH PERIODIC CHECKING AT OCCASIONAL INTERVALS.

INTERPRETIVE ACTIVITIES OUTSIDE OF THE AREA ARE INCLUDED ON THIS FORM AS A MATTER OF RECORD ONLY. THEY SHOULD NOT BE INCLUDED IN THE TOTALS. GIVE TYPE OF ACTIVITY; SUCH AS TALK, BROADCAST, EXHIBIT, ETC.; DATE; ATTENDANCE; AND OTHER DATA NECESSARY TO DESCRIBE THE ACTIVITY.

TOTALS: TOTAL ATTENDANCE SHOWS THE ACTUAL NUMBER OF VISITORS WHO TOOK ADVANTAGE OF THE VARIOUS INTERPRETIVE SERVICES OFFERED. SINCE EACH VISITOR MAY USE SEVERAL DIFFERENT INTERPRETIVE DEVICES, THIS ATTENDANCE MAY RECORD A TOTAL CONSIDERABLY IN EXCESS OF THE VISITORS REGISTERED IN THE AREA DURING THE SAME PERIOD. FOR COMPARISON, THE TOTAL NUMBER OF VISITORS TO THE AREA DURING THE MONTH SHOULD BE SHOWN.

GOVERNMENT PUBLICATIONS: (FOR HISTORICAL AREAS) INDICATE BY NAME OR NUMBER THE COPIES SOLD AND ON HAND.

THIS REPORT DUE: FROM ALL NATIONAL PARK SERVICE AREAS PROVIDING INTERPRETIVE SERVICES. RETAIN ORIGINAL IN AREA FILES. IN AREAS EMPLOYING NATURALIST THIS REPORT TO BE ATTACHED TO HIS MONTHLY NARRATIVE REPORTS. IN OTHER AREAS IT SHOULD BE PRESENTED AS A SEPARATE REPORT WITH COPIES FOR COORDINATING SUPERINTENDENT, REGIONAL DIRECTOR AND DIRECTOR FORWARDED THROUGH ADMINISTRATIVE CHANNELS. DATE DUE EACH MONTH IN ACCORDANCE ADMINISTRATIVE MANUAL, VOL. 15, CHAPTER 8 (REPORT 8M3) AND 9 (REPORT 9M3).

207-02.4

NATIONAL PARK SERVICE
1953 JUL 8 AM 9 40
YELLOWSTONE NAT'L PARK

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

REPORT 9M2

MONTHLY REPORT OF THE NATURALIST DIVISION
JUNE - 1953

General

The park attendance for June was greater than for the same month in 1952. There was a pronounced demand on the part of the visitors for interpretive and informational services. Funds available did not permit the instigation of the program as early as would have been desirable. In spite of this the public use of the interpretive services exceeded the month of June 1952. The weather was very favorable for people to use the park and the programs and guided trips were not curbed appreciably by storms. The members of the permanent staff were exceedingly busy getting the program rolling and at the months close the program was well established.

Administration

The activities of the Division were directed by Chief Park Naturalist Condon. Park Naturalist Watson was assigned responsibility for some phases of the operations at Mammoth, Norris, Madison and Old Faithful. Park Naturalist Elmore was given responsibility for work done at Tower Fall, Canyon, Fishing Bridge and West Thumb. The seasonal park naturalists at the field stations have been assigned certain administrative responsibilities for activities in their particular areas.

Special Activities and Conferences

Park Naturalist Elmore had Dr. Otto Kraus of Munich, Germany accompany him on a trip around the loop on June 12.

On June 2 Mr. Joe Halterman of the Fish and Wildlife Service, Billings, Montana and Mr. Frank C. Curtis, Forest Supervisor of the Custer National Forest were in Yellowstone and the Chief Park Naturalist's office arranging for a program to be given the Montana Conservation Caravan on June 25.

Mr. John Craighead, in charge of the wildlife research unit at Montana State University, Missoula, was in the Chief Park Naturalist's office on the 3rd.

Assistant Regional Director John McLaughlin was in the Chief Park Naturalist's office on the 20th and at that time some of the problems of the Naturalist Division, and especially personnel matters, were discussed.

A special meeting was held in the conference room on June 23 to plan a program for handling the special Scout parties which will be entering Yellowstone during the month of July. In attendance at the conference were Assistant Superintendent Hamilton, Chief Ranger Otto Brown, Assistant Chief Rangers Stanley McComas and Tom Garry, Mr. John Q. Nichols and Chief Park Naturalist Condon. On the 26th a trip was made around the loop with many of the same people for the purpose of visiting all the sites where the Boy Scouts will be assembled.

Through the courtesy of Mr. Jack E. Haynes bound copies of the 1953 edition of the Haynes Guide Book were made available for all seasonal and permanent naturalists and also for the Yellowstone Park library. This guide book is an excellent ready reference source for information on Yellowstone and will be valuable as an aid in the interpretive program. These books were given to the men on June 27.

The Chief Park Naturalist devoted considerable time to making up a detailed plan and itemization of the proposed expenditures of the division for the 1954 fiscal year in keeping with a request made by the Administrative Officer.

Chief Park Naturalist Condon was installed as 3rd Vice-Commander of the American Legion Post No. 23 of Livingston, Montana on June 10.

Religious Services and Chapel Use

The Yellowstone National Park Chapel was used extensively during the month of June. The summer bible school was held there from June 1 through June 12. This school was conducted by local people with Mrs. Mary Armstrong acting as superintendent of the bible school. Mrs. Mel Thuring, Mrs. Ruben Hart, Mrs. Warren Hotchkiss, Mrs. Tom Garry and Mrs. Charles Manning acted as teachers. There was an average daily attendance of 50 children and the program was a pronounced success. At the close of the school an exhibit of handicraft and a special program was held.

Rev. Warren W. Ost, director of the Christian Ministry in the National Parks which is sponsored by the National Council of Churches of Christ in the U. S. arrived in the park on June 3 and set about organizing the Protestant services which will be conducted by the student ministers for the 1953 season. Rev. Ost left Yellowstone on June 16 for Glacier National Park. The student ministers will be John P. Crossley, who will be stationed at Mammoth and who will head up the program and Charles C. Talley who will be at Old Faithful. These two student ministers will be assisted by several others who will act as organists, choir leaders and study group leaders.

The planning and organizational procedures were completed for the religious services program in the park and a circular prepared and issued to all park personnel and information centers. In addition to this circular, religious services announcement posters were placed at all key points of visitation throughout the park.

The first of the summer Protestant services was held in the Yellowstone National Park Chapel on June 7. The Latter Day Saints services began June 14 and the Roman Catholic services began on June 21. The Park County Ministerial Association of Livingston, Montana and the Cody Ministerial Association of Cody, Wyoming are again conducting services in Yellowstone.

A copy of the religious services program as set up for the 1953 season is attached to this report.

In-Service Training

There were a number of in-service training activities handled by members of the Naturalist Division during the month. Each of these were designed to help the new employee understand Yellowstone, its significance and the policies of the Service with respect to its operation. The in-service training programs handled were as follows:

Date	Group	No.	Naturalist
June 8	Bus drivers trip in the Upper Geyser Basin	106	Lystrup
June 11	Employees training meeting, Old Faithful Lodge	450	Condon
June 12	Bus drivers in-service training meeting, Mammoth Canteen	67	Condon
June 14	Canyon Hotel employees and other concession employees	425	Condon
June 21	Old Faithful Inn employees and guests	700	Condon

In addition to these Park Naturalist Lowell Biddulph conducted orientational programs for employees at the Fishing Bridge cafeteria, Lake Lodge, Lake Hotel and at West Thumb.

Chief Park Naturalist Condon gave an in-service training talk to the temporary rangers at the canteen on the 16th and an intensive in-service training program was held for the temporary rangers and park ranger naturalists on June 17 and 18. There were 22 temporary rangers and 6 temporary naturalists in addition to permanent personnel who participated in this training program. A schedule of the program is attached to this report.

Interpretive Services

During the month the introductory signs and the trail labels were placed on the self-guiding nature trails at the Mammoth Clematis Gulch trail, the Norris Green Dragon Spring trail, the Old Faithful Gentian trail and the Tower Fall Lost Falls trail. These trails received extensive use by park visitors.

A large number of place names and informational signs were taken out into the park on June 1 and placed near the features they identified.

Chief Park Naturalist Condon talked to the Rotary Club in Livingston, Montana on Yellowstone Park wildlife on June 1. There were 30 persons present.

Arrangements have been made with the Yellowstone Park Co. to conduct evening programs in the Old Faithful lodge recreation hall and the Lake Lodge recreation hall. Mr. Huntley Child has been very cooperative on this program and has arranged to purchase blinds for the windows so that the halls can be darkened early in the evening. Programs to date conducted at these points have proved to be very popular. It has been impossible to conduct illustrated talks in the Old Faithful recreation hall since the blinds have not arrived and the hall cannot be darkened. There still have been large crowds assembled to hear the talks given.

The barrier logs and the "Keep Off" signs in the vicinity of Old Faithful Geyser were moved out to the edge of the wooden walks with the result that the people are keeping back off the cones near Old Faithful and staying back near the walkways. This action on the part of the people is affording a great deal more protection to the sinter areas around Old Faithful geyser cone and it is thought will appreciably reduce the erosion which is taking place in this area.

During the month the duck board walks were completed in the geyser basins, with the bitumul walk over geyser hill being completely replaced by a wooden walk. At the key points where naturalists stop with their parties on guided trips the walk has been put in double so that crowds can be assembled in a large group without getting off the walks onto the formation. In addition, at these key points what we have chosen to call stopping stations have been installed. This consists of a short, narrow section of walk on which the naturalist can step out some distance from his party, address his remarks to them, return to the main walkway and still not get on the geyser formations at all, thus setting a good example with respect to staying on constructed walks.

Wooden duck walks were installed in the West Thumb area and there is a pronounced need for signs to be placed in these thermal areas, especially along the walks, warning people to stay on the constructed walks and to be cautious and careful in these thermal areas.

As part of the interpretive program three motion picture projectors have been assigned to the field stations - one for use at Old Faithful and West Thumb, one at the Lake, Fishing Bridge and Canyon areas and one for the Mammoth and Tower Fall areas. In addition to these projectors three 50-minute 16mm motion pictures in color have been assigned for use at these areas. These movies are entitled "Geyserland" which is a general trip around the park, "The Mud Pots, Geysers and Hot Pools of Mysterious Yellowstone" which is a movie portraying the hydrothermal phenomena and other water resources and "Wild Animal Heaven" which deals solely with the large mammals. The plan for the use of these motion pictures is that the pictures will be shown three nights in the amphitheater at Old Faithful, three nights in the recreation hall and then transferred to Thumb for use during the next week, the same procedure being followed for the exchange of pictures and projection equipment between the other stations.

Chief Park Naturalist Condon conducted the Montana Conservation Caravan group on their tour across the northern side of Yellowstone Park on June 25. Assistant Superintendent Hamilton also accompanied this group. There were 40 people in the party. Mrs. Carolyn Madden, Dick Setterstrom, Winston Wedemyer, Joseph Halterman of the Fish and Wildlife Service, Billings, Montana and Frank Curtis, Forest Supervisor, Custer National Forest were heading up the tour.

A text was completed for new publicity signs advertising the interpretive services for the 1953 season. It is anticipated that these will be printed in early July.

The full interpretive program as set up for the Naturalist Division activities for the 1953 season was underway at all stations by June 19 and attendance at these activities is shown in the statistical report 8m3 and 9m3 which accompanies this report. In addition to this statistical information there is attached to this report an outline of the program which is being followed for the 1953 season.

Museum Activities and Exhibits

All wayside exhibits were in use during the month of June and the foyer of the Norris museum served as an unattended exhibit for the first 12 days of the month. It was necessary to take the Canyon exhibit apart and remove the vials containing crushed soil samples and a new rack is being made to hold these so they will no longer crack and fall to the bottom of the exhibit case. The Mammoth, Old Faithful and Fishing Bridge museums were open all month. The Madison Museum opened on June 5 and the Norris Museum opened June 12. These museums proved to be very popular with park visitors and there was a constant stream of people flowing through them at all times. All of the museums are being kept open for longer hours this season than in other years.

During the month considerable time was devoted to working over the study skin collections and accessioning and cataloging all unaccessioned and uncatalogued items. There was a total of 16 accessions made, totaling 21 items. Also accessioned and catalogued were two projectile points making a total of 18 accessions and 23 catalogued items for the month.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Watson was on duty all month. Park Naturalist Elmore was on duty all month. Clerk-Stenographer Bettilee Proznick was on duty all month. Mrs. Alice Quist was employed as the Library and Museum Association clerk. Mrs. Lucile Wagner entered on duty as Association librarian on the 12th.

Quarters for personnel were placed in good order and people moved into them as they entered on duty. The cooperation of the mechanical and engineering divisions in moving two cabins from Mammoth - one to West Thumb on the 17th and one to Old Faithful on the 19th - is appreciated and made it possible to quarter married couples at these stations. The availability of the Norris mess house and a double cabin at Madison increased the quarters

capacity for married couples. The best of assistance and cooperation was received from all of the service divisions responsible for making power, water and other facilities available. Considerable work had to be done in rehabilitating these quarters to make them liveable.

Park Naturalist Watson's and Park Naturalist Elmore's tours of duty were changed and this makes it possible for one of these men to be on duty at the headquarters museum over weekends.

Considerable time was spent in arranging for personnel to report earlier than originally scheduled and a number of special reports had to be prepared on the planned use of personnel for the month and transmitted to the Administrative Officer so that fiscal planning for the close of the year could be properly done.

Park Ranger Naturalist Joseph Murphy entered on duty June 10 and worked five hours when he became very ill and after being confined to the hospital it was necessary that he undergo major surgery on June 13. Mr. Murphy recovered rapidly from his illness and returned to duty on June 24. Several of the park ranger naturalists were worked over time during the week of June 15-20 to compensate for personnel not available due to the in-service training program.

A memorandum was prepared and submitted to the Superintendent with justifications in which it was suggested that the seasonal park ranger naturalist positions be reclassified into the following grades: eight IGS-4, sixteen GS-5, four GS-6 and five GS-7.

A great deal of time was consumed in the preparation of tours of duty, time slips and work schedules for the personnel in the division, in addition to the preparation of special memorandums covering holiday work which would be done in July by personnel.

The following people have been employed in a seasonal capacity in the Naturalist Division and the dates of their entry on duty are as follows:

Name	Position	Date
Lowell Biddulph	Park Naturalist	June 1
George D. Marler	Park Naturalist	June 1
Ray J. Davis	Park Ranger Naturalist	June 2
Alma Teuscher	Park Ranger Naturalist	June 3
Ted J. Parkinson	Park Ranger Naturalist	June 3
Herbert T. Lystrup	Park Naturalist	June 3
Robert B. Cotner	Park Ranger Naturalist	June 5
George L. Downing	Park Ranger Naturalist	June 9
Samuel M. Beal	Park Ranger Naturalist	June 9
Joseph R. Murphy	Park Ranger Naturalist	June 10
Joseph Catmull	Park Ranger Naturalist	June 10
Robert Breitenbach	Park Ranger Naturalist	June 10
Robert Jonas	Park Ranger Naturalist	June 11
Jack K. Clark	Park Ranger Naturalist	June 12

Name	Position	Date
Arthur Nash	Park Ranger Naturalist	June 11
Herrold Asmussen	Park Ranger Naturalist	June 13
Wayne F. Replogle	Park Naturalist	June 15
Clarence C. Alleman	Park Naturalist	June 15
Kenneth B. Armitage	Park Ranger Naturalist	June 17
Frederick B. Turner	Park Ranger Naturalist	June 18
Thad W. Stevens	Park Ranger Naturalist	June 18
Walter P. Herriman	Park Ranger Naturalist	June 18
Simon Simonian	Park Ranger Naturalist	June 18
Lewis W. Seaman	Park Ranger Naturalist	June 19
Charles J. Gebler	Park Ranger Naturalist	June 19
Herbert H. Moline	Park Ranger Naturalist	June 19
Wallace J. Hennessy	Park Ranger Naturalist	June 19
Wallace M. Good	Park Ranger Naturalist	June 19
Eugene Burns	Park Ranger Naturalist	June 19
Angus C. Black	Park Ranger Naturalist	June 19
Willis A. Eggler	Park Ranger Naturalist	June 22
Frank D. Rentchler	Park Ranger Naturalist	June 22
Howard L. Biddulph	Laborer (Janitor)	June 1
Burton E. Anderson	Laborer (Janitor)	June 2
Lynn L. Davis	Laborer (Janitor)	June 2

Research and Observation

The Mammoth Hot Spring Terraces during the past winter had the spring vents on them shift about considerably. On the Main Terrace reference has been made to the shifting of the water flow to the back edge of the terrace and formed a large pool. During the past month the Blue Spring has virtually dried up completely with a pronounced increase in the flow from the small Canary Spring at the extreme back edge of the Main Terrace. This water flow is flooding an entirely new area and building up travertine at a rapid rate. The Highland Terrace during April developed a flow of water in an area which has been dormant for an estimated 150-200 years. The flow of water at this point has increased progressively until during June there was a large volume of water cascading from the Highland Terrace area. Since the increase in flow at this point the springs on Angel Terrace have completely dried up indicating that there is probably some connection between the water supply feeding the present Highland Terrace area and the water supply which formerly fed Angel.

In the geyser basins the Giant, the Grand and the Beehive have continued to erupt with considerable regularity. The Daisy Geyser, which has been in a semi-dormant state for more than a year, has been erupting with some degree of regularity. In the Lower Geyser Basin the Morning Geyser, Fountain Geyser and Clepsydra have continued their active phase.

During the month trumpeter swan were observed on the Beach Spring lagoon with two cygnets, a pair nested on the small lake near Madison Junction and have five cygnets, a pair nested on the lake behind Bunsen Peak but

were unsuccessful in incubating a brood, two pair have been seen on the Yellowstone River in the vicinity of Alum Creek regularly, one pair has been frequenting the Trumpeter Lake area in the Lamar Valley. Sandhill crane have successfully incubated young at the Nymph Lake area, near the pocket in the Lower Geyser Basin area and in the large swamp just north of the Mud Volcano. (Harlequin ducks have been regularly seen in the vicinity of LeHardy Cascades of the Yellowstone River and were twice observed on the Yellowstone River near its junction with the Lamar.)

On the night of June 12 a car hit a beaver near the lower Gardner River bridge and the animal was brought to the headquarters museum on the morning of the 13th. It was still alive and apparently suffering from a broken back. On advice from doctors that the animal might recover it was kept behind the museum, fed and watered, and after six days died. The specimen was given to the Idaho State College for their mammal collection.

Park Ranger Naturalist Breitenbach located a coyote den with pups in it behind Bunsen Peak. The mother apparently disliked the disturbance and had moved her family to a new location when the den was again visited.

Park Naturalist Wayne Replogle's work on the Bannock trail was reviewed with him on the 29th and he now has a manuscript ready for final checking preparatory to publishing it as a pamphlet of the Yellowstone Library and Museum Association interpretive series. Park Ranger Naturalist Fred Turner has a manuscript and illustrations about ready for publication on the reptiles and amphibians of Yellowstone.

Library

Small reference libraries were taken to all field stations on the 12th. The books and periodicals needing binding were prepared and shipped to the Dieter Book Bindery in Denver, Colorado on the 29th. Two large boxes of books were involved in this shipment.

A special group representing the Montana Institute of Arts, Bozeman History Branch visited the park headquarters library on the 28th. At this time they reviewed much of the source material which we have on western history. There were 22 persons in the party and Mrs. Lucile Wagner, librarian, and Park Naturalist Watson helped this group.

The library this year is being used rather extensively by employees and some research students.

Books received in June	39
Books in circulation in June	172
Books on indefinite loan	108
Magazines received in June	24
Pamphlets received in June	24

Natural History Association

Book sales by the Association during June totaled $2,635.55.

The book sales stocks were taken to Old Faithful, Fishing Bridge, and Madison Junction during the month. The HAYNES GUIDE BOOK and the STORY OF OLD FAITHFUL GEYSER were added to the sales stock list which is offered to the people at Madison Junction. The Association has stepped up the sales pressure on the publication entitled OUR NATIONAL PARKS WHAT THEY MEAN TO YOU AND ME by Freeman Tilden.

The new pamphlet entitled THE STORY OF OLD FAITHFUL GEYSER by George Marler has been selling especially well in the Old Faithful area and it appears as though a reprinting will be in order before the end of July. Five thousand copies of this publication were obtained in the first printing.

Mrs. Lucile Wagner entered on duty as librarian employed by the Association on June 12 and Mrs. Alice Quist served as the Association clerk throughout the month.

A pronounced contribution to the interpretive program which has been made by the Association has been the payment for the duplicates of colored motion picture film and the placement on this film of a magnetic sound stripe. All told the Association has financed the duplication of 12 copies of these movies. One copy of the movie "Geyserland" was sent back to the Color Reproduction Corp. for their examination since it was thought that this copy was inferior to others provided by them.

Equipment and Supplies

Through the full cooperation of the Storehouse, Sanitation and Electrical divisions we were able to obtain additional beds, springs, mattresses, stoves and refrigerators for use in the seasonal naturalist quarters. Park Naturalist Elmore spent a good deal of time during the month of June getting this equipment into the buildings and checking property inventories with the personnel.

During the month the Purchasing Clerk placed orders for two 70x70 portable screens, one 60x60 portable screen, two American Optical Spencer 750 Watt kodaslide projectors and one 16mm Bell and Howell model 201-C magnetic sound type motion picture projector. It is anticipated that these will arrive somewhere near mid-July and be available for use in the field after that date.

The Eastman 16mm sound motion picture projector used at Fishing Bridge went haywire on the 25th and 1/2 days time was spent by Chief Park Naturalist Condon on the 29th in completely over-hauling this machine. It was taken to Canyon on that date in good operating condition.

A goodly quantity of janitorial supplies were purchased, film stock for exposure and some materials for building projection stands were also purchased.

Photographic and Visual Aids

The Kodaslides and projection equipment for all stations were delivered to those stations at the time the programs were initiated and all have been in use during the month. 16mm motion picture projectors were made available to field stations and copies of motion pictures for their use as part of their visual aids for interpretation have been provided.

A narration was placed on three of the magnetic sound striped movies during the month. There was 200 feet of 16mm colored motion picture film, one roll of K-135 and 20 4x5 black and white films exposed during the month.

Some special pictures were made of persons involved in a robbery and of whom the FBI wanted photographs.

Proposed Outline of Work for the month of July

1. Work on plans for the Old Faithful Museum.
2. Install the exhibit prepared on vandalism.
3. Put narration on sound films.
4. Publish May-June and July-August Nature Notes.
5. Hold seminar sessions at field stations.
6. Operate the full interpretive program and handle special parties.
7. Conduct the YL&MA book sales business.
8. Make pictures, both movie and stills.
9. Routine activities of the Division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

REVISED MAY 1949.

orm No. 10-769
eports
n3 and 9m3

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

UMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
ermanent	3		1	4
emporary	33		3	36

June
Month

1953
Year

CONDUCTED TRIPS		1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans	Cars - 97	29	967	
Walks or Hikes		374	13,390	
~~[illegible]~~	Game Stalk - No. Cars - 127	12	464	
Other Trips	Special Parties	5	263	
	Total	420	15,084	XXXXXXXX

TALKS	NO.		
Campfire	88	18,946	
Hotel or Lodge	32	8,235	
Museum (Not connected with conducted trip)	97	3,328	
Orientation (Not connected with conducted trip)	40	3,770	
Other (Not connected with conducted trip)	364	124,180	
Total	621	158,459	XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.		
Md Volcanoe Area	1	1,095	
Fshing Bridge Museum	1	19,610	
Cd Faithful Museum	1	57,650	
Od Faithful Cone (contacts)	1	8,000	
Uper Basin	1	2,300	
(Give Name or Type) Total	5	88,655	XXXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
Geen Dragon Self-Guiding Trail	1	299	
Ist Falls Self-Guiding Trail	1	45	
Gntian Self-Guiding Trail	1	1,500	
Cematis Gulch Self-Guiding Trail	1	100	
Mose Exhibit	1	91,774	
(Give Name or Type) Total	5	93,718	XXXXXXXX

Number Visitors to Area this Month

Total Interpretive Contacts.

Interpretive Activities Outside of the Area:	Govt. Publications	Sold	On Hand

EMARKS:

*NSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE.
Please read them carefully.

NAME David L. Condon
TITLE Chief Park Naturalist

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REVISED MAY 1949.

orm No. 10-769
eports
n3 and 9m3

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IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

UMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
ermanent	3		1	4
emporary	33		3	36

June
Month
1953
Year

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total	420	15,084	XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	621	158,459	XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.	88,655 (fr page 1)	
mmoth Museum	1	21,364	
tist Point	1	4,825	
okout Point	1	2,695	
per Fall	1	1,010	
wer Fall Platform	1	5,939	
(Give Name or Type) Total	5	124,488	XXXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.	93,718 (fr page 1)	
sidian Cliff	1	14,882	
rehole Canyon	1	52,088	
tist Point	1	151,303	
(Give Name or Type) Total		311,991	XXXXXXXX

Number Visitors to Area this Month

Total Interpretive Contacts.

terpretive Activities Outside of the Area:	Govt. Publications	Sold	On Hand

MARKS:

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orm No. 10-769
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IN NATIONAL PARK AREAS*

Yellowstone
Name of Area

UMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other	Total
ermanent	3		1	4
emporary	33		3	36

June
Month

1953
Year

CONDUCTED TRIPS	1 NO.	2 ATTENDANCE	3 DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other Trips			
Total	420	15,084	XXXXXXXX

TALKS	NO.		
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	621	158,459	XXXXXXXX

ATTENDED INTERPRETIVE STATIONS	NO.	124,488 (fr page 2)	
st Thumb thermal area	1	1,743	
dison Museum	1	10,046	
rris Museum	1	27,813	
(Give Name or Type) Total	3	164,090	XXXXXXXXX

UNATTENDED INTERPRETIVE DEVICES	NO.		
(Give Name or Type) Total		311,991	XXXXXXXX

248,039
Number Visitors to Area this Month

646,624
Total Interpretive Contacts.

terpretive Activities Outside of the Area:	Govt. Publications	Sold	On Hand

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

June 10, 1953

PROGRAM OF INTERPRETIVE SERVICES
1953 SEASON

The program of interpretive services to be in effect for the 1953 season at the various field stations is as follows:

MAMMOTH

MUSEUM HOURS	8:00 a.m. to 10:00 p.m.
INFORMATION DESK	There is a man on duty at the information desk during museum hours. He answers questions and sells literature on the national parks.
MUSEUM INTERPRETIVE SERVICE	The park ranger naturalist on desk duty gives museum talks whenever enough visitors who are interested in obtaining interpretive information are present to call them together. Museum talks are given each time bus parties arrive at the museum.
GUIDED WALKS	NATURE WALK - Exploring the terraces and woodlands. Leaves the headquarters museum 8:00 a.m. and Liberty Cap at 8:15 a.m. This walk follows the route of the Terrace Forest trail from Liberty Cap to Narrow Gauge Terrace, thence to Clematis Gulch and down Clematis Gulch. The trip is completed by 11:00 a.m. TERRACE WALKS - To interpret and view thermal phenomena. Morning trips 9:00, 10:00 and 11:00 a.m., beginning from Liberty Cap. Afternoon trips at 1:00, 2:00 and 3:00 p.m. These terrace walks are to be taken over the lower portion of the Mammoth Hot Spring Terraces and return to Liberty Cap.
SELF-GUIDING TRAIL	CLEMATIS GULCH SELF-GUIDING TRAIL - maintained by the Mammoth naturalist staff. It is a self-guiding trail which begins at the mouth of Clematis Gulch and continues up this gulch for about 1/2 mile, crosses the ridge to the vicinity of Narrow Gauge Terrace and returns to Liberty Cap via the old Norris road. There will be no guided trips on this trail, but it is well-signed with interpretive labels for the use of all park visitors who care to travel the trail at their leisure.

AUTO CARAVANS

TERRACE CARAVAN - Begins at the headquarters museum at 2:00 p.m. Goes over the upper terraces visiting Main Terrace, Prospect Terrace, Soda Spring and terminates at Angel Terrace.

WILDLIFE SEARCH CARAVAN - begins at the headquarters museum at 6:30 p.m. and returns to the campfire circle by 8:00 p.m. Visitors drive their own cars. Moose, antelope, deer and other animal life may be seen on this trip. The road follows the main highway from Mammoth to Willow Park or over other road sections if it becomes desirable to use them in order to seek wildlife. The time of this activity may be advanced to an earlier hour in the evening in the late season.

EVENING CAMPFIRE PROGRAM

Each evening a program is held in the Mammoth outdoor amphitheater across from the Chapel from 8:00 to 9:00 p.m. This is a short campfire talk illustrated with colored slides or motion pictures.

NORRIS GEYSER BASIN

MUSEUM HOURS

7:30 a.m. to 7:30 p.m.

INFORMATION DESK SERVICE

There is a man on duty at the information desk during museum hours. He answers questions and provides other interpretive services.

MUSEUM INTERPRETIVE SERVICES

Short museum talks are given to groups of people who assemble at the museum and to bus parties at the time of their arrival there.

GUIDED WALKS

There are geyser walks conducted by park ranger naturalists over the main geyser basin loop trail in the morning and afternoon upon the arrival of bus tour parties and additional trips will be made whenever there are large enough groups of motorists or special parties which have assembled and who are interested in such guide service.

SELF-GUIDING TRAIL

GREEN DRAGON SPRING SELF-GUIDING TRAIL - a well-labeled self-guiding geyser and nature trail. It is maintained by the park ranger naturalist at Norris. This trail has two routes that can be followed - a short trip of one mile, or the entire southern Norris geyser basin loop of 1-3/4 miles.

MADISON JUNCTION

MUSEUM HOURS	7:30 a.m. to 7:30 p.m. - Friday, Saturday & Sunday 8:00 a.m. to 12:00 and 1:00 to 5:00 p.m. - Monday Tuesday, Wednesday and Thursday
INFORMATION DESK SERVICE	A park ranger naturalist is on duty at the information desk during open hours to answer questions and sell publications.
MUSEUM INTERPRETIVE SERVICES	The park ranger naturalist on duty gives short museum talks on the history of the park, the Park Service and the development of the National Park system to bus parties, special groups and whenever there are enough visitors assembled to provide an audience.
EVENING CAMPFIRE PROGRAM	There is an informal campfire program at the campfire circle each evening from 8:00 to 9:00 p.m.

OLD FAITHFUL

MUSEUM HOURS	8:00 a.m. to 10:00 p.m.
INFORMATION DESK SERVICE	There is a man on duty at the information desk during museum hours. He answers questions and sells literature on the national parks.
GUIDED WALKS	NATURE WALK - exploring Geyser Hill and the forest trail to Observation Point. The trip begins at Old Faithful cone, leaves at 8:00 a.m. and returns to Old Faithful Geyser cone at 11:00 a.m. GEYSER HILL WALKS - exploring Geyser Hill. Route of travel is over Geyser Hill, down to Grand Geyser and return via Castle Geyser. Trips - 9:00 a.m. to 11:00 a.m. 10:00 a.m. to 12:00 noon, 1:00 p.m. to 3:00 p.m. and 2:00 p.m. to 4:00 p.m. NOTICE: All walks begin from Old Faithful Geyser cone and announcements of these walks will be made in the Old Faithful museum by the naturalist conducting them.
OLD FAITHFUL GEYSER CONE INTERPRETIVE SERVICE	A park ranger naturalist is stationed on duty at the Old Faithful cone from 8:00 a.m. to 8:00 p.m. and provides informational and interpretive services as well as protection.
GEYSER TALKS	CONE TALKS - The naturalist on duty at Old Faithful cone will present short 10-20 minute talks preceding each daylight eruption of this geyser and a short talk will be given prior to the illuminated eruption.

FIELD TALKS - at every opportunity park ranger naturalists give geyser talks to the assembled crowds at the eruptions of major geysers.

GEYSER OBSERVATIONS

Park ranger naturalists stationed at Old Faithful will be expected to make geyser observations daily and post major geyser eruption times in the Old Faithful museum

SELF-GUIDING TRAIL

GENTIAN SELF-GUIDING NATURE TRAIL - begins at the Firehole River bridge crossing and parallels Geyser Hill for a distance of 1/2 mile, coming out near Beach Spring. Travel can be either direction on this trail. Labeling of this trail is done by the naturalist staff at Old Faithful.

EVENING TALKS PROGRAM

CAMPFIRE PROGRAM - Held in the Old Faithful amphitheater from 8:00 to 9:00 p.m. This is a short campfire talk illustrated with colored slides or motion pictures

OLD FAITHFUL LODGE TALK - Each evening except on Sundays there will be an illustrated talk given in the Old Faithful Lodge Recreation hall from 7:30 to 8:30 p.m.

ILLUMINATED ERUPTION OF OLD FAITHFUL

The first eruption of Old Faithful occurring after 9:00 p.m. will be illuminated. Prior to the illuminated eruption a short geyser talk will be given by a park ranger naturalist.

WEST THUMB

GUIDED WALKS

NATURE WALK - begins at the West Thumb ranger station and travels over the footpath of the thermal area, and then along the forest paths, up the lake shore to Occasional Geyser and return. The walk begins at 8:15 a.m. and returns by 11:15 a.m.

GEYSER BASIN WALKS - regular guided trips are made through the West Thumb geyser basin at the time of the arrival of the scheduled bus tours. Walks will be conducted by the park ranger naturalist on duty whenever he can assemble a party.

GEYSER BASIN INFORMATION & PROTECTION PATROL

There is a park ranger naturalist on duty in the geyser basin from 8:00 a.m. to 6:00 p.m. He will conduct the geyser basin walks and the balance of the time he will be on information duty and basin patrol.

EVENING CAMPFIRE PROGRAM

Held in the West Thumb campground amphitheater from 8:00 to 9:00 p.m. This will be a short campfire talk illustrated with colored slides or motion pictures.

FISHING BRIDGE

MUSEUM HOURS	8:00 a.m. to 8:00 p.m. Closed 8:00 p.m. to 9:00 p.m. Open 9:00 p.m. to 10:00 p.m.
INFORMATION DESK SERVICE	There is a man on duty at the information desk during museum hours. He will answer questions and sell literature on the national parks.
MUSEUM INTERPRETIVE SERVICE	The park ranger naturalist on desk duty gives museum talks whenever enough visitors who are interested in obtaining interpretive information are present to call them together. Museum talks are given each time bus parties arrive at the museum.
GUIDED WALKS	NATURE WALK - begins at the Fishing Bridge museum, explores the lake shore area and explores the swamp near Fishing Bridge. The walk begins at 8:30 a.m. and should return to the museum by 11:30. On the trip people should learn the biology of the Lake area, geology of the Lake area and should have an opportunity to see plant life forms and an interesting array of animals. NATURE WALK AT LAKE - starts at the Lake Lodge at 9:00 a.m. and returns by 11:00 a.m. The route to be followed is the old Elephant Back trail.
AUTO CARAVAN	An auto caravan of persons driving their own cars and led on the trip by a park ranger naturalist leaves Fishing Bridge museum daily at 2:00 p.m. and returns by 4:00 p.m. This trip takes park visitors to the Lake fish hatchery and as far as the Natural Bridge. After the fish hatchery closes in the late season trips go to Lake Butte.
EVENING TALKS	EVENING CAMPFIRE PROGRAM - held in the Fishing Bridge amphitheater from 8:00 to 9:00 p.m. It is a short campfire talk illustrated with colored slides or motion pictures. LAKE LODGE TALK - held in the Lake Lodge recreation hall from 7:30 to 8:30 p.m. except on Sundays. It is a short talk illustrated with colored slides or motion pictures.

CANYON

GUIDED WALKS	NORTH RIM TRIPS - route followed will be one of the park ranger naturalist's choice, and may be any one of the following: exploring the Canyon-Cascade Creek trail, the guided trip down Red Rock trail or the bear cave-camp-

ground nature trail. All trips begin at the Canyon ranger station at 8:30 a.m. and return to this point by 11:30 a.m.

SOUTH RIM TRIP - This is the adventurous and thrilling hike down Uncle Tom's trail to the canyon bottom at the base of the Lower Falls. This walk starts at Canyon Lodge at 8:30 a.m. and returns by 11:30 a.m.

INTERPRETIVE SERVICE AT OBSERVATION POINTS

Seasonal park ranger naturalists are stationed daily at Grand View or Lookout Point and at Artist Point from 1:30 p.m. to 5:00 p.m. These men provide interpretation, information and help to park visitors. They present short talks which interpret the Canyon's scenic grandeur and geology to any and all groups that can be assembled. In addition, they serve the protective function of looking after the public's safety.

EVENING TALKS

CANYON EVENING CAMPFIRE PROGRAM - this program will be conducted in the Canyon campground amphitheater from 8:00 to 9:00 p.m. It is a short campfire talk illustrated with colored slides or motion pictures.

TOWER FALL

GUIDED WALKS

Nature walk exploring Lost Creek is a naturalist guided nature trail hike which leaves the lodge at Camp Roosevelt daily at 8:45 a.m. and returns by 11:15 a.m. This is one of the outstanding trails in the park for flowers, birds, mammals and scenic landscapes.

INTERPRETIVE SERVICE AT OBSERVATION POINT

The park ranger naturalist stationed at Tower Fall serves the park visitors at the Tower Fall observation platform from 1:30 p.m. to 5:00 p.m. He meets the people and provides them with an interpretation of the landscape and information on Yellowstone.

SELF-GUIDING TRAIL

The Lost Falls self-guiding nature trail winds up Lost Creek to Lost Falls. The nature labels along this trail will be maintained by the park ranger naturalist stationed at Tower Fall.

EVENING PROGRAM

Each evening in the lobby of Camp Roosevelt Lodge at 8:15 p.m. there will be a short talk, illustrated with colored slides or motion pictures.

The scheduled interpretive activities for any station are not to be changed until the proposed changes have been reviewed and approved by the Chief Park Naturalist. The program as outlined here should be adequate to meet the

interpretive needs of the public during the 1953 season. If this program can be improved by changes in scheduled activities, or by the addition of activities your suggestions will be welcomed in the Chief Park Naturalist's office.

REFER TO THIS SCHEDULE WHEN YOU ARE IN DOUBT AS TO THE TIME AND TYPE OF ACTIVITIES THAT ARE BEING CONDUCTED AT THE VARIOUS INTERPRETIVE STATIONS THROUGHOUT THE PARK.

David de L. Condon
Chief Park Naturalist

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

June 10, 1953

CIRCULAR NO. 7

Religious services in Yellowstone National Park for the 1953 season began with Protestant services June 7 and will continue to September 13. Latter Day Saints services begin June 14 and continue until September 6. Roman Catholic services will begin June 21 and continue until September 6. There will be special Roman Catholic services on August 15 at the same time and places as the Sunday services. Post-season and pre-season Protestant Sunday School services are conducted each Sunday in the Mammoth Chapel at 10:30 a.m.

TIME AND PLACE
OF
RELIGIOUS SERVICES EACH SUNDAY

Yellowstone National Park Chapel: Mammoth

Roman Catholic	9:00 a.m.
Protestant (A National Parks Ministry)	10:30 a.m.
Latter Day Saints	7:00 p.m.

Old Faithful Lodge Recreation Hall:

Roman Catholic	6:00 a.m.
Protestant (Park County Ministerial Assn.)	10:30 a.m.
Protestant (A National Parks Ministry Vesper Service)	8:30 p.m.
Latter Day Saints	7:00 p.m.

Lake Lodge Recreation Hall:

Roman Catholic	10:30 a.m.
Protestant (A National Parks Ministry)	3:30 p.m.
Latter Day Saints	7:00 p.m.
Protestant (Cody Ministerial Assn.)	8:30 p.m.

Fishing Bridge Museum Amphitheater:

Protestant (A National Parks Ministry)	10:30 a.m.
Protestant (Cody Ministerial Assn.)	3:00 p.m.

Canyon Lodge Lobby:

Roman Catholic	6:00 a.m.
Protestant (A National Parks Ministry "Canyon Vespers")	8:30 p.m.

Canyon Outdoor Amphitheater:

Protestant (A National Parks Ministry)	10:30 a.m.
Latter Day Saints	7:00 p.m.

Camp Roosevelt Lodge Lobby:

Protestant (A National Parks Ministry)	4:15 p.m.

West Thumb Recreation Hall: (Tuesday Evening)

Protestant (A National Parks Ministry)	9:00 p.m.

These religious services are to be announced each Saturday night at the campfire programs by seasonal park ranger naturalists and the information contained here is to be used at all museum and ranger station information desks.

Printed schedules of church services for the 1953 season are posted on bulletin boards at all public use areas. Refer people to them.

The Protestant services conducted by a National Parks Ministry at Mammoth, Canyon and Camp Roosevelt will be conducted by Student Minister John P. Crossley and those at Old Faithful, West Thumb, Lake and Fishing Bridge will be conducted by Student Minister James W. Woollett. These young men are sponsored by the National Council of the Churches of Christ and will be available all week, each week, to render any aid they can to the park visitors and employees. Mr. Crossley will be headquartered at Mammoth and Mr. Woollett at Old Faithful.

The afternoon and evening Protestant services at Fishing Bridge and Lake will be directed by Rev. R. N. Buswell of Cody, Wyoming. He will be assisted during the season by other Protestant ministers from the Cody area.

The Roman Catholic services will be under the direction of the Rev. Francis T. Penny of Cody, Wyoming and the priests assisting him will be Rev. Wilfrid Fangman, Rev. Regis Hickey, and Rev. Thomas Hartmann

Latter Day Saint services will be directed by missionaries from the St. Anthony, Idaho; Lovell, Wyoming and Billings, Montana missions.

The Protestant ministers of the Park County Ministerial Association who will conduct morning services at Old Faithful are:

June 14	Reverend Andrew Roukema
" 21	Reverend Melvin Walker
" 28	Reverend Louis Ortmayer
July 5	Reverend Everett Dennis
" 12	Reverend Arthur Seebart
" 19	Reverend Warren Strain
" 26	Reverend Melvin Walker

August	2	Reverend Arthur Seebart
"	9	Reverend Forest Clark
"	16	Reverend Robert Dunn
"	23	Reverend Warren Strain
"	30	Reverend Everett Dennis
Sept.	6	Reverend Forest Clark

There will in all probability be inquiries from people concerning the time of church services at West Yellowstone and Gardiner, Montana. There will be Roman Catholic services in West Yellowstone in Our Lady of the Pines Roman Catholic church each Sunday morning at 7:00 a.m. and 9:00 a.m. The Roman Catholic services in Gardiner will be held in the Eagles Hall each Sunday at 8:00 a.m. There will be Protestant services in West Yellowstone and Gardiner at 8:00 p.m. each Sunday.

This circular is supplied you so that you will be able to properly inform the visitors on all religious services planned for the 1953 season.

Edmund B. Rogers
Superintendent

OUTLINE FOR PRE-SEASON IN-SERVICE TRAINING
OF
SEASONAL PARK RANGER NATURALISTS
JUNE 17 AND 18 - 1953

SCHEDULE AND ITINERARY

Wednesday - June 17, 1953

8:00 a.m. - Meet at museum. Explanation of trip - Chief Park Naturalist Condon
8:10 - Leave Mammoth museum
8:30 - Swan Lake observation - Park Naturalist Watson
8:55 - Moose exhibit in Willow Park - Park Naturalist Elmore
9:15 - Apollinaris Spring - trees of plateau - Park Naturalist Elmore
9:30 - Obsidian Cliff exhibit - Park Naturalist Watson
9:50 - Roaring Mountain - story in bus
10:00 - Nymph Lake - story in bus
10:10 - Norris Geyser Basin:
Basin Trail - 25 minutes - Watson
Norris Museum - 20 minutes
Responsibility and care of government buildings and property - Elmore
A. Ranger stations, patrol cabins, museums, grounds, quarters.
B. Cleanliness and maintenance.
C. Personal conduct in and around stations. Public influence.
11:05 - Chocolate Pots on the Gibbon - no stop, story in bus
11:20 - Beryl Spring - pause, story in bus
11:35 - Gibbon Falls - view from upper observation point
11:50 - Tuff Cliff - no stop, story in bus
12:00 - Lunch - Madison mess house
12:45 - Madison Junction museum - Chief Park Naturalist Condon
A. National Park Service ideals and history
B. National Park Service policies and legislation
C. Naturalist Division functions
D. Protection Division functions and Yellowstone National Park organizational setup.
1:15 - Firehole Cascade exhibit - Watson
1:35 - Nez Perce Bridge - Indian story - Park Ranger Naturalist Sam Beal
1:55 - Fountain Paint Pots and Lower Geyser Basin - Watson
2:25 - Great Fountain Geyser - pause, story in bus
2:30 - Firehole Pool - Condon
2:45 - Excelsior and Midway Geyser Basin - Park Naturalist George Marler
3:10 - Biscuit Basin - Condon
3:40 - Giant, then via Daisy to Black Sand Basin - story in bus
4:00 - Greater Geyser Hill walk - Marler
5:30 - Dinner at Old Faithful mess
6:15 - Cabin assignments
7:00 - Round table discussion (location to be announced later)
A. Evening campfire programs, nature trail guiding procedure - Condon
B. The uniform - when, where and how to wear it - Condon

C. Yellowstone Library and Museum Association - Watson
   1. Purpose of organization
   2. Benefits derived by N.P.S., naturalists and the people
   3. Handling of Y.L.M.A. funds
   4. Museum publication sales procedure
D. Law enforcement and operation of the Chief Ranger's Office - Chief Ranger Otto Brown
   1. Enforcement of rules and regulations - responsibility of all seasonal park ranger naturalists
   2. Procedures in law enforcement, interpretation of offenses, reprimand, cautioning, arrest and court trial, action to be taken, accident reports and protection of formations.
   3. Firearms - permits required for use and possession of firearms. Use of firearms by ranger personnel.
   4. Law violation investigations - detection and preservation of evidence and importance of facts pertinent to law cases for court use.
   5. Motor vehicles regulations and highway patrol.
   6. Operation of Chief Ranger's office, information notices, statistical office, radio station.
   7. United States Commissioner, court procedure, jail sentences and fines.

E. Concessioners and their facilities - Elmore
F. Review and summary of rules and regulations - Otto Brown
   1. General rules and regulations
   2. Local subsidiary rules and regulations
   3. Special rules and regulations
G. Government property - Watson
   1. Issuance, proper use, responsibility and accountability
   2. Care and maintenance of motor vehicles and mechanical equipment
   3. Preparation of reports and station records

THURSDAY - JUNE 18

7:15 - Breakfast - Old Faithful mess
8:00 - Leave Old Faithful
8:15 - Kepler Cascades - 5 minutes - Condon
8:35 - Shoshone Point - 20 minutes - Assistant Chief Ranger Harold Edwards

A. Forestry
   1. General forestry policies
   2. Insect and blister rust control projects
   3. Wood cutting regulations and reporting
B. Forest fire protection and trails
   1. Pre-suppression methods
   2. Suppression - methods, facilities, personnel, organization, fire dispatching, fire reports, rangers place in forest fire suppression, naturalists place
   3. Trails, maintenance, construction and special crews
   4. Fire permits - issuance, fire danger

9:20 - Arrive West Thumb - thermal area walk - Condon
10:45 - Fish Hatchery - stripping and story at hatchery - Fish & Wildlife Ser.
11:30 - Lunch - Lake mess
12:00 - Fishing Bridge museum - 15 min. ornithology of area - Park Naturalist Lowell Biddulph
12:15 - Leave for Lake Butte - 20 minutes on Lake geology & geography - Condon
2:15 - Leave for Canyon
2:45 - Mud Volcano and Dragon's Mouth - Watson
3:15 - Alum Creek - stop - buffalo - Condon
3:45 - Artist Point - story of Canyon - Park Naturalist Wayne Replogle
4:20 - Lookout Point - Condon
4:45 - Inspiration Point - Watson
5:30 - Dinner - Canyon mess
6:00 - Leave for Mammoth
6:20 - Dunraven Pass - timberline trees, blister rust, etc. - Elmore
6:50 - Tower Fall - geology - Condon
7:30 - Petrified Tree - Watson
8:00 - Overlooking Hellroaring - Condon

A. Wildlife problems and policies
   1. Field observations
   2. Census information
   3. Range studies
   4. Ranch operations
   5. Coyote studies
   6. Trumpeter swan studies and counts
   7. Bear problems
      (a) Present policies of extermination for control
      (b) Public education
      (c) Lectures, patrolmen, information desks, signs and literature
      (d) Trapping and transportation policies
      (e) Bear feeding regulations - arrests
   8. Fish culture activities
      (a) Operation of U.S. Fish and Wildlife Service
      (b) Planting plans, procedures and methods - records.
   9. Rodents

9:00 - Return to Mammoth

GENERAL INSTRUCTIONS FOR TRAINEES

1. Be alert - take notes - absorb information

2. Ask questions - make suggestions - be sure points are clear

3. This is important to your regular work - CAPITALIZE ON IT

Manuals as Reference Sources for Information and Guidance

1. Location of manuals

   (a) Museum library
   (b) Station library
   (c) District Ranger's office

2. An Information Manual of Yellowstone National Park

3. Park Ranger's Administration Manual

   (a) General organization
   (b) Duties and instructions
   (c) Regulations
   (d) Information and policies
   (e) District boundaries
   (f) Yellowstone forest fire plan and guide

4. Park Ranger's Checking Station Manual

5. Report Manual

   (a) Wildlife reports
   (b) Forestry and fire protection reports
   (c) Accident reports
   (d) Checking station reports
   (e) Miscellaneous reports
   (f) Travel regulations and reports
   (g) Issuance of permits

6. Other manuals and references pertinent to the park ranger naturalist

   (a) Red Cross First Aid Text Book
   (b) Fire Protection Training Handbook, USFS Fireman's Guide - Region One
   (c) Yellowstone Trail Manual
   (d) Western Fire Fighter's Manual

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NATIONAL PARK SERVICE
1953 AUG 7 PM 1 28
YELLOWSTONE NATIONAL PARK

UNITED STATES

DEPARTMENT OF THE INTERIOR

REPORT 9M2

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
JULY 1953

General

The month of July was very dry and composed largely of clear bright days. This type of weather was splendid for outdoor interpretive activities and the programs were popular with the people and well attended. There were very few of the activities that were rained out during the month and only a few campfire programs that had to be cancelled. The last three days of the month had some thunder showers and evening storms throughout the major part of the park.

Chief Geologist Bennett T. Gale and Chief Naturalist John E. Doerr visited Yellowstone during the month and audited the activities of the division at most stations throughout the loop.

Administration

Chief Park Naturalist was in charge of the interpretive program and activities of the naturalist division, with Park Naturalist Watson assuming certain administrative responsibility for the western side of the park and Park Naturalist Elmore for the eastern side. The Park Naturalist in charge at the various stations assumed certain administrative responsibilities, and in general kept the interpretive program clicking at the field stations.

Chief Park Naturalist Condon audited programs at Lake Lodge on the 3rd, Mammoth amphitheater on the 4th, Mammoth on the 23rd, Canyon on the 26th and Mammoth on the 30th. Park Naturalist Watson audited programs at Mammoth on the 6th, Old Faithful on the 13th, Tower Fall on the 14th and Old Faithful on the 16th. Park Naturalist Elmore audited programs at Mammoth on the 7th and Mammoth on the 23rd.

Special Activities and Conferences

A memorandum on the proposed Region Two park naturalist-historian and chief ranger conference and training session which it is planned to hold in the fall was prepared for approval of the Superintendent on July 6.

Mrs. Frances Joyce Farnsworth, author of the books "Cubby in Wonderland" and "Cubby Returns" was in the Chief Park Naturalist's office on the 9th and at that time these books and other proposed books which she anticipates publishing in the future were discussed.

Mr. Randall Watkins, a former park ranger naturalist, visited in Yellowstone with the Chief Park Naturalist on July 10.

Mr. Bennett T. Gale, Chief Geologist of the National Park Service, came into Yellowstone via the South Entrance with Carl Jepson, Chief Naturalist of Teton on July 12. On July 13 Park Naturalist Watson conducted Chief Geologist Gale on a trip down the western side of the park visiting the hydrothermal areas and inspecting thermal area protection. Mr. Gale was taken on the Molly Island trip on the 14th and on the 15th conferred with the Chief Engineer, Assistant Superintendent and Chief Park Naturalist on the project construction programs. Later that day he was taken by Chief Park Naturalist Condon to the Canyon area, to visit the Mud Volcano area and to visit the Black Dragons Cauldron and met Mr. Jepson at West Thumb at which time Mr. Gale left Yellowstone.

On July 15 a special conference on fisheries matters was held at the Mammoth Hotel at which time many of the matters relating to the fisheries research and especially fisheries management were discussed. In attendance were Mr. William Nichols, John Q. Nichols, Huntley Child, Trevor Povah, Jack E. Haynes, Superintendent Edmund B. Rogers, W. F. Carbine, William Dunn and Dr. Oliver Cope of the Fish and Wildlife Service, Joseph Joffe, Warren Hamilton, Otto Brown, Walter Kittams and Chief Park Naturalist Condon of the National Park Service.

Mr. Tom McHugh, photographer for Walt Disney Motion Pictures, was in the Chief Park Naturalist's office on the 17th of July and made arrangements to stay in Hayden Valley for the purpose of photographing bison, making special attempts to get pictures of bison fighting. Mr. McHugh has been in the Valley for the past month. Mr. James Algar, also of the Walt Disney Productions, was in the Chief Park Naturalist's office on the 21st and discussed with the Chief Park Naturalist Mr. McHugh's work. At that time arrangements were made to obtain on a loan basis from the Disney Productions copies of Beaver Valley and Bear County.

Chief Park Naturalist Condon visited the White Lake fire on Sunday, the 19th, and at that time made a few pictures, both in color and black and white, but by the time of his arrival there was no spectacular activity to photograph.

Mr. John E. Doerr, Chief Naturalist of the National Park Service, arrived in Yellowstone on the 22nd and spent the 22nd and 23rd at Mammoth. At this time he reviewed matters with the Superintendent and Chief Park Naturalist. Especially did he go over the master planning and research program and interpretive program with the Chief Park Naturalist. On the 24th and 25th he stayed at Old Faithful and audited the program there, on the 26th and 27th the Lake-Fishing Bridge area, on the 28th and 29th in the Canyon area and then he spent the 30th and 31st in Mammoth. He left Yellowstone for Teton on August 1. While here he reviewed the entire interpretive program and spent considerable time with Biologist Walter Kittams on biology matters.

Mr. Joseph Muench, eminent landscape photographer, was in the Chief Park Naturalist's office on the 23rd to discuss matters pertaining to the book which he has published entitled "Along Yellowstone and Grand Teton Trails." Mr. Muench anticipates publishing a revision of this book.

Mr. Ned Burns, Chief of the Museum Branch of the National Park Service, was in the Chief Park Naturalist's office on the 25th and left the same day for the Lake area. He planned to leave Yellowstone on the 27th.

Mr. Bill Anderson and his wife, who are free lance photographers and who have made a number of unusual 16mm motion pictures and at the present time are working on pictures for the Encyclopedia Brittanica were in the Chief Park Naturalist's office on the 25th and at that time were given considerable information on localities in Yellowstone where certain types of pictures they were interested in might be obtained.

Former Chief Park Naturalist Clyde Max Bauer was in Yellowstone visiting on the 27th and 28th and left on the 29th. Dr. Bauer this summer is serving as a consultant at the Princeton Geological School at Red Lodge, Montana. Mrs. Bauer accompanied Dr. Bauer on this trip.

A conference was held on wildlife matters, especially dealing with the northern Yellowstone elk problem and the bison management, in the Superintendent's office on the 30th. In attendance at this conference were Chief Naturalist Doerr, Superintendent Rogers, Biologist Kittams, Assistant Superintendent Hamilton, Chief Ranger Brown, Assistant Chief Ranger Chapman, Administrative Assistant Joffe and Chief Park Naturalist Condon.

Religious Services and Chapel Use

The regular services for all religious faiths as scheduled for the summer program were held throughout the park. Representatives of the Roman Catholics, Latter Day Saints, Park County Ministerial Association, Cody Ministerial Association and the Christian Ministry in the National Parks all held services at the times and places scheduled.

The first presentation of the Messiah which is a program promoted by the student ministers in Yellowstone as part of the Christian Ministry in Yellowstone's program was a pronounced success and similar presentations of the Messiah will be made at Old Faithful, Mammoth and Canyon during August. Lake chorus was directed by Miss Betty Dunn, and gave the first presentation of the Messiah at the Lake Lodge.

In-Service Training

Several memoranda on means of improving the interpretive program were distributed to naturalist division personnel as in-service training aids and information. In addition, a copy of Vernon E. Craig's thesis on fisheries management in Montana was distributed to the naturalists for their review and observation (for it was felt that it contained considerable information of value for their use in the interpretive work.)

The naturalist division continued to issue the weekly Yellowstone News Letter.

Interpretive Services

The interpretive services for the public were conducted at all stations throughout the park in conformance with the program activities

for the 1953 season. Walks, talks and evening programs were well attended by park visitors and all museums proved to be popular centers of concentration for visitors seeking information on the park. The interpretive services were affected some by the use of naturalists on fire duty at White Lake for one week, but as much as possible the personnel at the various stations absorbed the additional work load and the program continued with very little interruption.

Boy Scout visitation was heavy during the month and special Scout troop convoys coming into Yellowstone by train were met and given interpretive information on Yellowstone by the park naturalists at the various field stations and special introductory talks were given to these convoys by the members of the permanent naturalist staff as follows: Park Naturalist Watson met convoys on the 8th and 14th. Park Naturalist Elmore met the convoy on the 29th and Chief Park Naturalist Condon talked to convoy groups on the 12th, 13th, 28th, 29th and 30th.

On July 27 Park Naturalists Watson and Condon met a special party at the West gate. This party consisted of 78 people, 68 of whom were totally blind. This party was composed of two large buses, one from Bozeman, Montana and another from Idaho Falls, Idaho. It was the pleasure of Mr. Watson and Mr. Condon to serve as eyes for this group for the interpretation of Yellowstone's resources and they spent the entire day going around the lower loop and out the Northern entrance. The presentation of Yellowstone to this group required a great deal of imagination and talking. Chief Park Naturalist Condon presented special talks to the group at Madison Junction, Daisy Geyser and at Artist Point. In addition to these special talks, a constant commentary on views seen from the bus as it traveled was made to the group by the two naturalists. All in attendance seemed to get a great deal from their experience and it was felt that the effort put forth to help these people was a pronounced success.

Chief Park Naturalist Condon talked at the Canyon amphitheater on July 10 and Park Naturalist Watson presented a program at Camp Roosevelt on July 9.

The motion pictures entitled "Beaver Valley" and "Bear Country" prepared by Walt Disney Productions were made available to Yellowstone and were shown to a large group of employees in the canteen on the evening of the 27th and were again shown to the employees on the evening of the 28th. These pictures were greatly enjoyed by the audiences.

The installation of the wooden walks in the Upper Geyser Basin were completed early in July and the installation of double width sections at the key points where naturalists stop their parties to describe hydrothermal phenomena and at the points which we have chosen to call stopping stations have proven to be very useful and satisfactory. These facilities are aiding naturalists in the interpretation of the phenomena on the geyser walks.

Chief Park Naturalist Condon accompanied two Japanese dignitaries, Mr. Jukichi Kodaira, Governor of Tochigi Perfecture and Mr. Tetsumosa Senge, Japanese national park official, around the lower loop of Yellowstone

Park Ranger Naturalist Ted Parkinson talking to Boy Scout group at Old Faithful on July 12, 1953
Photo - Condon

on the 24th. This was an interesting contact and there was considerable opportunity for interpreting Yellowstone's resources to these men.

Museum Activities and Exhibits

The five museums of the park were all open throughout the month with the exception of the Madison Museum which it became necessary to close on the 21st and 22nd while Park Ranger Naturalist Cotner was on his lieu days and Park Ranger Naturalist Herriman was on the fire.

The vials of rock samples were replaced in the Artist Point exhibit during the month.

A pipe protection guard rail was placed around the relief map in the Norris Museum and a wooden guard rail of rustic log to conform and match the interior log work of the Fishing Bridge museum was placed around the grizzly bear. These installations are affording protection to the exhibits which they did not have before and as a result are going to save materially on the maintenance and upkeep of them.

During the month there were 23 accessions and 35 items catalogued for the museum.

Park Naturalist Elmore devoted considerable time to the installation of the vandalism exhibit for the Old Faithful museum and it is anticipated that early in the month of August it will be installed.

The binocular viewer which was installed at Lake Butte for the general use of the public and which during the past four seasons has been very useful to them in viewing Yellowstone Lake and the scenery in that general vicinity was stolen on July 14. Someone had taken a hack saw and cut off the steel post on which the viewer was mounted.

On July 3 the members of the staff at the Fishing Bridge museum tore out the old rotted stage at the Fishing Bridge amphitheater and fixed two new campfire pits for their evening campfire. At this same time they moved the museum signs on the highway farther up the road in each direction from the road which turns into the museum parking area so that people will be able to read the sign, make a decision as to whether or not they want to go into the area and still have time to turn. This has to some extent increased visitation.

Personnel

Park Naturalist Elmore was on duty all month. Park Naturalist Watson was on duty all month except for fire duty. Chief Park Naturalist Condon was on duty all month. Clerk-stenographer Proznick was on duty all month. All park ranger naturalists were on duty all month except for those shown on fire duty.

The following park naturalists and park ranger naturalists were on duty at the White Lake fire as shown: Park Naturalist Watson - 8 days,

Park Naturalist Replogle - 10 days, Park Naturalist Lystrup - 12 days, Park Ranger Naturalist Rentchler - 10 days, Park Ranger Naturalist Herriman - 10 days.

A verbal complaint was received on July 19 from Mr. A. J. Cook of Coffeeville, Kansas. This complaint was made to Assistant Superintendent Hamilton and Chief Park Naturalist Condon. Mr. Cook objected vigorously to the type of talks given by Mr. Eugene Burns at the Camp Roosevelt Lodge. After considerable discussion with Mr. Cook he was appeased and the problem disposed of. Mr. Burns was in the Chief Park Naturalist's office on the 20th for a discussion of his work and the type of program presented there and it is anticipated that no further complaints on Mr. Burns' activities will be received.

Park Ranger Naturalist Burns went to Missoula, Montana on July 22 and 23, his lieu days, for the purpose of attending a meeting of the Outdoor Writers Association and at that time he presented a talk to this group.

Mrs. Lucile Wagner continued her services as librarian and Mrs. Alice Quist as clerk for the Yellowstone Library and Museum Association.

Research and Observation

Park Naturalist Watson submitted the following incident in his monthly report:

"A chipmunk brought into the fire camp at White Lake by seasonal ranger Walgren on the 24th gave all observers cause to wonder why he performed as he did. Walgren observed him out in the burned area engaged in almost continuous tight counter clockwise girations as though desperately determined to catch up with his fleeting tail. Each turn was a lightning-like movement followed after a split second pause by a similar one, with the sequence continuing for several seconds and followed by a longer pause while the animal appeared to be recovering from some dizziness. Shortly thereafter the routine would begin all over again. Close examination revealed no injury to the animal's body, but his unusual actions and lack of inclination to bite when held in the hand seemed to prove that his tiny brain had received some manner of shock. Walgren's simple statement that "he is smoke happy" perhaps explains his condition. After our observations the animal was turned loose in an island of green timber near the camp."

Two families of sandhill crane have been regularly seen during the month of July; one with two young in the large swamp area just north of the Mud Volcano in the Hayden Valley and another with one young in the vicinity of Nymph Lake. The trumpeter swan family with five cygnets on the small lake below Madison Junction is still all there and doing well. The pair with two cygnets on Beach Spring Lagoon on Mary Bay are, at the close of the month, doing well.

This summer has been one of the best years for park visitors to see elk that we have had in Yellowstone. At the Clear Water Springs area elk have been spending a good part of the day and thousands of people have seen cows and calves. In Elk Park, the Gibbon Meadows and in the meadows

Park Naturalist Herbert T. Lystrup talking to Boy Scouts at Old Faithful on July 8, 1953.

Photo - Matson

along the old Mesa road below Gibbon Falls there have been bull elk which have been frequenting the roadside regularly during the daylight hours with the result that many park visitors have enjoyed seeing them. The stretch of Madison Valley from the Madison museum for three miles down the valley has been the concentration point for three different bands of elk. One of these consisted of eight cows and eight calves. These three groups this year have virtually been in a semi-domesticated state, with people often walking in among the animals to watch them and photograph them.

On July 12 the group of eight cows and eight calves, at about 10:00 a.m., put on a rather interesting demonstration for a large group of park visitors when the entire group waded out into the middle of the Madison River and then, with the bank lined with people, proceeded to all take baths, immersing themselves under the water and rising up and shaking. These antics proved to be highly amusing and entertaining to park visitors.

So far during the 1953 season the following collecting permits have been issued by the Superintendent:

Name	Institution	Specimens
Alan A. Beetle	U. of Wyoming	Grasses
Laurie C. Pearson	Ricks College	Plants
Henry S. Conard	U. of Iowa	Mosses & Liverworts
Dennis J. Brown	Walla Walla College	Insects
Ray J. Davis	Yellowstone Herbarium	Plants
Lynn L. Davis	Idaho State College	Plants
Lewis W. Seaman	U. of Denver	Plants
Charles D. Butler	U. of Montana	Invertebrate Fossils
Leonard J. Gross	Olympic College	Plants
Richard W. Coleman	U. S. Nat'l Museum	Invertebrate animals
Francis R. Boyd, Jr.	Carnegie Institute	Volcanic Rocks
R. Maurice Myers	W. Illinois St. Coll.	Trees, shrubs & flowers
Eula Whitehouse	So. Meth. U.	Plants
Elva Lawton	Hunter College	Bryophytes
Winona H. Welch	DePauw Univ.	Bryophytes
Josiah L. Lowe	N.Y. St. Coll. of For.	Fungous
Robert L. Gilbertson	N.Y. St. Coll. of For.	Fungi
Irving Friedman	U. S. Geol. Survey	Obsidian
Joseph R. Murphy	U. of Nebraska	Insects & Spiders
Edward L. Kessel	Calif. Academy of Science	Insects
Jack E. Smedley	U.S.G.S.	Fossil Invertebrates
Dr. C. L. Porter	U. of Wyoming	Aquatic seed plants

Mr. Robert Jonas, park ranger naturalist stationed at Canyon has proceeded with his research study on the distribution of beaver in Yellowstone and at the present time has compared previous studies and historical records of this animal. Mr. Jonas and his major professor, Dr. Larrison of the University of Idaho, were in the Chief Park Naturalist's office on July 1 at which time a review was made of the study which Mr. Jonas is making and it was decided that the information he was gathering would undoubtedly be of pronounced interest and value to Yellowstone and would be a biological contribution.

Chief Park Naturalist Condon talking to the blind group at Artist Point. July 27, 1953.

Photo - Watson

On the 4th of July Chief Park Naturalist Condon went over the Indian material which is being prepared by Park Naturalist Replogle on the Bannock Indian trail and later in the week Mr. Replogle left his manuscript with the Chief Park Naturalist. This was reviewed and returned to Mr. Replogle on July 10 with suggestions for changes and improvement in its presentation.

Chief Park Naturalist Condon found part of an obsidian spear point on July 12 in the meadow below Madison Junction and this was turned over to the museum as an item for the collection.

On July 14 a special party visited the Molly Islands for the purpose of banding birds nesting there and to install on the islands warning signs which would keep people off the island. The party this year consisted of Park Naturalist Elmore, Mrs. Elmore, Bettilee Proznick, Park Ranger Naturalists Robert Jonas, Kenneth Armitage, Samuel Beal, Eugene Burns, Joseph Murphy and Robert Breitenbach, Wayne Hamilton, Mr. Long and Mr. Long's son, Chief Geologist Bennett Gale, Biologist Orville Ball of the Fish and Wildlife Service, Temporary Park Ranger Joe Rapp and Chief Park Naturalist Condon. The party put up large double-faced signs on the rocky and sandy islands and banded 195 sea gulls, 155 pelicans and 18 cormorants. There were 27 fish tags recovered and these had their origin - one from Pelican Creek, 22 from Chipmunk and Grouse creeks and 4 from Arnica Creek. A detailed report on banding activities was sent to the Fish and Wildlife Service at Patuxent Wildlife Research Refuge.

On a visit to the Trout Creek dump on July 17 there were 17 grizzly bears seen including two females with three cubs each and on July 29 there were 13 grizzlies seen with only one of the females with three cubs showing up that evening. There are well beaten bear trails leading from this dump like the spokes of a wheel across Hayden Valley to the woodland areas.

In talking with Mr. Tom McHugh he told of a very interesting incident concerning the grizzly bear in the meadow immediately adjacent to his camp in the Hayden Valley. On July 27 a large grizzly bear came out into the meadow hunting rodents and was watched for some time as it caught mice and dug up gopher burrows. Mr. McHugh became a little disturbed because down the meadow a little distance were the two horses which were being used in his work. Much to the surprise of Mr. McHugh and his companion, a large white horse observed the grizzly bear and instead of becoming frightened and leaving the scene the horse immediately walked up the meadow toward the bear and approached the bear within 20 feet, giving evidence of considerable curiosity as to what in the world the bear might be doing. The grizzly paid no attention to the horse but went on about its business of hunting rodents and after the horse had satisfied its curiosity it went on its business of grazing and the bear wandered off into the woods.

Mr. Jack Smedley, geologist for the U.S.G.S., was in the Chief Park Naturalist's office on July 17 and at that time discussed his desire to return to Yellowstone in August and collect from the Madison limestone paleontological specimens and to again remeasure the Madison lime in the Crowfoot Ridge area of the Gallatin Mountains. At this time Mr. Smedley

The new wooden walk on Geyser Hill at Sponge Geyser showing the double width at a key stopping point for guided parties and the stopping station where the naturalist can stand to present his information to the group. July 7, 1953.

Photo - Condon

was issued a collecting permit and a memorandum prepared for the Director's Office concerning his desire to conduct this research. Mr. Irving Friedman from the Geological Survey was in on the 17th and was issued a collecting permit for obsidian specimens. Mr. Friedman is studying the isotopic composition of water in obsidian.

The Black Dragon Cauldron above the Mud Volcano area was visited four times during the month of July and progressively during the month it showed increasing evidence of drying up. It is anticipated that probably during August sometime this will no longer be a violently erupting mud cauldron but will turn out to be a dry steam vent. The last visit on July 26 found the mud level down several feet below the level it was at the beginning of the season and the mud in a very sticky state with the great bursts of steam throwing mud as high as 100 feet in the air. The level of the small lake near this feature has gone down several feet since May and it appears as though this whole group is losing its water.

Chief Park Naturalist Condon had an interesting experience on July 3 when he stopped a man and his family, consisting of his wife and two children, from feeding a bear along the roadside between Mammoth and Norris. The experience points up the need for better informing of the public with respect to the fact that feeding bears is against Park Service regulations. Mr. Condon politely stopped the family from feeding the bears and advised the father that such a practice was against park regulations and that such regulations had been set up for the purpose of protecting the park visitor and protecting the bears. After telling the father and mother these facts the father then explained to Chief Park Naturalist Condon that he felt he had not been satisfactorily advised by the Park Service that the practice of feeding bears was against the regulations for the operation of the park. The man indicated that he had seen signs advising him and his family that the feeding of bears is dangerous. He admitted that he had read two such signs and that he had also read the bottom of his map which was given him at the entrance station on which in large print in the lower left hand corner is the statement that "Feeding or molesting bears is dangerous."

When asked if he had read the small enclosure which was handed to him with the map which shows a large bear with mouth open and claws extended, he stated that he had not read the complete thing but had simply read the letter cut which indicated that bears were dangerous and when it was pointed out to him that below this dangerous was the statement that "To protect you, our regulations prohibit feeding or molesting them." He indicated that he had not read that specific sentence and was quite emphatic that he thought the Service should be more explicit in their emphasis of the fact that regulations <u>prohibit</u> the feeding of bears and that they should not play up the fact that bears are dangerous as much as they have in contrast to the small lettering of the fact that regulations prohibit feeding them and that these regulations are for the purpose of protecting both the bears and the visitors.

This man went on to cite the fact that it is dangerous to drive an automobile. Highway traffic statistics show that thousands of people

are killed each year in traffic accidents, yet people drive automobiles regularly and accept that danger. He pointed out that it is dangerous for people to walk across the road since statistics again show that thousands of people are killed walking across roads, yet people accept that danger and use the roads. He cited a number of other instances in which things people do in their daily lives are dangerous and recognized as such but that it becomes their prerogative to either reject or accept that dangerous practice. It was his opinion that to place on the map in large bold lettering the wording "Feeding or molesting bears is dangerous" and that to place along the roadside signs which say "Feeding bears is dangerous" was not fair to the park visitor since we did not go far enough and advise them that because it is dangerous regulations prohibit such practices.

He called Mr. Condon's attention to the "For Your Safety" section on the front of the map which he said he had read and that it indicates that feeding of animals is dangerous but not prohibited. On the large map it states that feeding is dangerous but not prohibited. When it was pointed out to him that in the text of the map under the section "Wildlife" the statement is made that "Regulations which prohibit the feeding, molesting, touching or teasing of animals are enforced for the protection of all visitors" he thought it would be much wiser to have some of the bold print sections indicate that it was against regulations instead of concealing it in the regular text of the folder with inconspicuous printing. He called Mr. Condon's attention to the fact that bold print which stood out even in the general text dealt with the safety factor and not with a regulation prohibiting individuals from violating any regulations.

After this discussion and after reviewing the map and folder given to the people and following through this man's logic, which must be the logic of many others, it was the opinion of Chief Park Naturalist Condon that much could be done to improve the advising of people concerning regulations which govern their conduct here and especially pertaining to bear feeding so that the field man that stops people from feeding bears will not be embarrassed by their failure to have been properly advised.

Library

The Yellowstone National Park research library was used extensively by seasonal personnel, especially by seasonal park ranger naturalists and park rangers. Many of the concessioner employees have used it and some research students have gathered information from it. Mrs. Lucile Wagner has continued to function as librarian in the employ of the Library and Museum Association. Library use has been as follows:

Books received in July	12
Books in circulation in July	235
Books on indefinite loan	108
Magazines received in July	32
Pamphlets received in July	13

One of the two new signs placed on Molly Island,
July 14, 1953. Photo - Condon

Natural History Association

Book sales for the Association during the month have been above those for 1952 and a comparison of 1952 sales with 1953 are as follows:

Station	July 1953 Sales	July 1952 Sales	Difference	% of Increase or Decrease
Bookroom	$ 221.00	$ 84.03	$ 136.97	163% increase
Mammoth	1,320.80	1,466.20	145.40	9.9% decrease
Madison*	126.95	85.15	-----	------
Old Faithful	4,453.55	3,366.90	1,086.65	32.3% increase
Fishing Bridge	833.55	738.05	95.50	12.9% increase
	$ 6,955.85	$ 5,740.33		

It became necessary for the Association to order increased stocks of "Piney Bear", "Haynes Guide Book" and the book "Come Unto Me." During the month the pamphlet "The Story of Old Faithful Geyser" was carefully reviewed by the Naturalist Division staff and Park Naturalist George Marler and corrections were made of all errors in this printing. In addition, changes were made in the text and it was sent to the Edwards Brothers for reprinting. A reprint of 10,000 copies has been ordered and delivery is expected in early August. By the end of July this publication had been sold out.

The Yellowstone Library and Museum Association paid for batteries and repairs to a public address unit which it was necessary that we have immediately for use in handling the large Scout convoy groups. The N.P.S. did not have batteries on hand nor funds readily available for the purchase of such.

Copy for the May-June and July-August issues of Yellowstone Nature Notes were prepared during the month and these two issues will be duplicated and assembled early in August.

Mrs. Alice Quist, who has been employed as clerk by the Association, was on duty throughout the month.

Equipment and Supplies

During the month three new screens were received. Two 70x70 and two 60x60. Two new American Optical Spencer type 2x2 Kodaslide projectors were received on the 8th and one Bell and Howell model 202 16mm magnetic sound motion picture projector was received on the 1st. Paper stock for the preparation of the Weekly News Letter and other supplies were received during the month.

Photographic and Visual Aids

Three rolls of K-135 film were exposed, fifty 4x5 black and white negatives exposed and developed, two rolls of 116 roll film exposed and developed.

Magnetic sound was put on three copies of the Yellowstone Park motion pictures.

Considerable darkroom work was done with the developing of all black and white film exposed and printed and contact prints of some of some of the negatives.

Proposed Outline of Work for August

1. The issuance of the May-June and July-August Yellowstone Nature Notes.

2. Placing of magnetic sound on the balance of the 16mm motion picture films.

3. Expose pictures of park phenomena and service activities.

4. The issuance of the Weekly News Letter.

5. Editing 16mm motion picture film.

6. Install vandalism exhibit at Old Faithful museum.

7. Work on plans for additional exhibits at Old Faithful museum.

8. Routine activities of the Division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

Mailed 8-7-53

NATIONAL PARK SERVICE
1953 SEP 9 AM 8 37
YELLOWSTONE NATIONAL PARK

✓ ROGERS
✓ HAMILTON
✓ JOFFE
ANDERSON
STANTON
GABBERT
HOTCHKISS
CONDON
✓ BROWN
McCONAHA
EDWARDS
GARRY
✓ WILLIAMS
WOHLBRANDT
ROBINSON
WIGGINS
McMULLIN

201-02

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

REPORT 9M2

MONTHLY REPORT OF THE NATURALIST DIVISION
AUGUST - 1953

General

The weather was ideal in August and all programs which were scheduled as part of the interpretive activities were carried through. Large numbers of people enjoyed the resources of the park and participated in the interpretive activities. Forest fires occurred near the end of the month which took some personnel but did not seriously hamper the program. A shortage of funds made it necessary to start releasing personnel shortly after mid-August. This resulted in a curtailment of certain aspects of the interpretive work.

Administration

The interpretive program was directed by Chief Park Naturalist Condon, with Park Naturalists Watson and Elmore assuming some administrative responsibilities for field activities. The program at each station was ably directed by the seasonal park naturalist in charge there.

Special Activities and Conferences

On August 1 Chief Park Naturalist took Chief Naturalist John E. Doerr to Teton National Park and returned to Yellowstone late that day.

Mr. Carl Tolpo, landscape artist who in the past has painted two splendid pictures of the Grand Canyon, spent the month of August at Canyon painting the Lower Falls from a point about midway between the Lower Falls and Artist Point on the south side of the canyon. At the months close Mr. Tolpo had completed his painting which was a very interesting bit of work.

Miss Ella E. Clark of the English Department of Washington State College and a writer on western history, especially the Indians of the west, was in the Chief Park Naturalist's office on the 3rd and spent the day in the Yellowstone Park research library. Miss Clark is preparing a book on the Indian legends of the northern Rocky Mountains and was able to get from the library a few legends. Miss Clark in a recent letter indicated that she had acquired 63 interesting stories on her trip through Yellowstone, Wyoming and Montana.

On the 4th of August the Chief Park Naturalist reviewed the Yellowstone informational broadside and map and submitted a memorandum suggesting a number of changes that should be made to make the information correct.

On August 5 Mr. John F. Shankland and Mr. Floyd E. Dominy of the Secretary of the Interior's office were in the Chief Park Naturalist's office. They interviewed the Chief Park Naturalist and asked a number of questions concerning Park Service activities, especially those of the Naturalist Division.

On August 6 Park Naturalists Watson and Lystrup spent the day in a fire review conference at which time the White Lake fire of July was reviewed.

Mr. Glahib Tofiq of Saudi Arabia spent part of the day of August 6 examining and using the Bell and Howell 16mm motion picture equipment, both the cameras and the new magnetic sound projector, instruments in which he was very much interested.

On August 18 Director Conrad L. Wirth of the National Park Service was in the Chief Park Naturalist's office and at that time discussed with the Chief Park Naturalist the personnel of the Naturalist Division and asked a number of questions concerning quarters and quarters problems.

Dr. Henry S. Conard, a former park ranger naturalist and one of the earliest naturalists in Yellowstone, was in the Chief Park Naturalist's office on the 19th and spent a good part of the day in the herbarium examining mosses and other plants in that collection. Dr. Conard was accompanied by a number of other botanists who were highly interested in mosses.

Mr. Roger Tory Peterson, eminent artist and ornithologist, was in the Chief Park Naturalist's office on the 21st and 22nd. Mr. Peterson participated in discussions with Dr. John Craighead and Dr. Ray J. Davis concerning the possibilities of publishing a field guide to the flowers of the Rocky Mountains. Discussions on this subject were held on Friday afternoon, the 21st, and Saturday morning, the 22nd. Chief Park Naturalist Condon took Mr. Peterson into the field on the evening of the 21st and at that time visited Hayden Valley and the Trout Creek area. On the 22nd he took Mr. Peterson to points where he had an opportunity to see and photograph trumpeter swan, bison and elk.

The Chief Park Naturalist prepared a rather lengthy memorandum concerning ideas on approaches to a solution for some of the quarters problems of the National Park Service and this was submitted to the Superintendent on the 24th.

Dr. Harold Edward Bailey and Mrs. Virginia Long Bailey, authors of the book "Woody Plants of the Western National Parks," were in the Chief Park Naturalist's office on the 25th and at that time spent a good part of the day in the Yellowstone Park herbarium examining specimens on file there. The Baileys are members of the faculty at Wayne University, Detroit, Michigan.

Religious Services and Chapel Use

The regular religious services as scheduled for the 1953 season were conducted by the Ministerial Association of Cody, the Park County Ministerial Association of Livingston, the Christian Ministry in the National

Parks group, the Latter Day Saints and the Roman Catholics. These services were held in the Yellowstone National Park Chapel, the outdoor amphitheaters and in the lodge recreation halls.

The Roman Catholics held a special service at all of the designated areas where religious services are conducted on August 15. The Christian Ministry in the National Parks group of student ministers conducted special services during the month also. These consisted of a presentation of Handels "Messiah" in the Yellowstone National Park Chapel at Mammoth on August 7 at 9:00 p.m. with a chorus directed by Robert Moore, at the Old Faithful Lodge recreation hall Friday evening at 9:00 p.m., August 14, with a chorus directed by Richard Lapo and at Canyon Lodge Sunday, August 16, with the chorus directed by Muriel Dunlap. The student minister program presented a communion service in the Yellowstone National Park Chapel at 9:00 p.m. on the evening of the 31st.

On Sunday afternoon, August 16, Miss Avonelle Brown, daughter of Chief Ranger and Mrs. Otto M. Brown, was married to Mr. Adam L. Remboldt of Milton-Freewater, Oregon. The service was held in the Yellowstone National Park Chapel.

In-Service Training

There were no special in-service training programs conducted by the Naturalist Division during the month of August with the exception that the Division continued to run off and distribute the Yellowstone Weekly News Letter.

Interpretive Services

The regular interpretive program was conducted throughout the month in conformance with the schedule as set up for the 1953 season with the exception of closing activities at ~~Camp~~ Roosevelt Lodge the night of August 25, completely discontinuing the program at West Thumb on the 28th, reducing the program at Canyon beginning August 20 and slightly curtailing the program at Old Faithful, Fishing Bridge and Madison Junction after August 27.

Talks given by members of the permanent naturalist staff were as follows:

August 5	Old Faithful Lodge	David de L. Condon
August 12	Mammoth	W. Verde Watson
August 19	Fishing Bridge	David de L. Condon
August 20	Canyon	W. Verde Watson
August 20	Old Faithful Amphitheater	Francis H. Elmore

On August 1 633 Boy Scouts were given special services by members of the Naturalist Division at Mammoth, Canyon and Old Faithful.

In order to keep the program active at Madison Junction it was necessary for Park Naturalist Elmore to function as relief man there on August 21 and 29.

The Division received on August 4 on a loan basis from the Graybar Electric Co. a portapage public address unit. This has been used on an experimental basis at Old Faithful and at Canyon. It works very satisfactorily with large crowds but the men object to carrying a unit as heavy as this, although it only weighs 12 pounds.

The programs audited by members of the permanent staff were as follows:

Condon - August 4, Mammoth
August 5, Old Faithful amphitheater
August 11, Old Faithful amphitheater
August 12, Old Faithful lodge
August 13, Fishing Bridge
August 18, Old Faithful
August 20, Lake lodge
August 24, Lake lodge and Fishing Bridge amphitheater

Watson - August 4, Mammoth
August 9, Mammoth
August 11, Madison Junction
August 18, Tower Fall
August 19, Old Faithful lodge
August 24, Lake Lodge

Elmore - August 1, Tower Fall
August 12, Old Faithful amphitheater
August 27, Fishing Bridge amphitheater

Chief Park Naturalist Condon made tape recordings of information desk activities at Mammoth on the 11th, talks at Old Faithful on the 11th, at Fishing Bridge on the 13th and at Old Faithful on the 27th.

Museum Activities and Exhibits

The vandalism exhibit was installed at the Old Faithful museum by Park Naturalist Elmore on the 4th. This case was raised 14 inches higher than the others and places the exhibit material more nearly at eye level. The fungi exhibit was altered and installed at the Mammoth museum on the 8th.

There were 12 accessions of museum artifacts and 34 items catalogued.

Considerable work was done on plans for the revision of the exhibits in the Old Faithful museum.

Lewis Seaman was transferred from the West Thumb area on the 26th to Madison Junction.

All of the museums were available to the public throughout the month and also all of the wayside exhibits.

Personnel

Park Naturalist Condon was on duty all month. Park Naturalist Watson was on duty all month. Park Naturalist Elmore was on duty all month except for two days on sick leave. Clerk-stenographer Bettilee Proznick was on duty all month except for 13 hours of annual leave.

The Chief Park Naturalist interviewed several men during the month who made inquiries concerning possibilities of securing seasonal park ranger naturalist work. These men were supplied with application forms and were advised to submit these around the first of January.

The motion picture "Bear Country" by Walt Disney was shown to the employees at Old Faithful on the 5th and at Fishing Bridge on the 7th.

Around the 10th of the month a severe attack of "Yellowstone-itis" made inroads on the personnel of the Naturalist Division. Several of the men were so ill that it became necessary for them to remain off the job and many of the employees had difficulty making their work schedule but managed to do so.

Park Ranger Naturalist Herriman was called on the fire at Chipmunk Creek on the 24th and Park Naturalist Watson left the morning of the 25th for this same fire. Both men were gone the balance of the month.

Seasonal personnel began to terminate their services in August with the following personnel being gone by the months close:

Name	At the close of duty:
George L. Downing	August 19
Wayne F. Replogle	August 19
Jack Clark	August 19
Robert Cotner	August 20
Herrold Asmussen	August 23
Thad Stevens	August 25
Angus Black	August 26
Herbert T. Lystrup	August 27
Walter P. Herriman	August 27
Eugene Burns	August 28
Theodore S. Roeder	August 28
Burton E. Anderson	August 28
Wallace J. Hennessy	August 29
Alma Teuscher	August 31

All of these employees have indicated a desire to return again for the 1954 season.

Research and Observation

Dr. Ralph Scorah of the University of Missouri was granted permission to conduct some research studies on boiling and superheated pools.

This work was done on August 12, with Chief Park Naturalist Condon and Park Naturalist George Marler assisting Dr. Scorah and his co-worker, Dr. Love. At the time the tests were made Surprise Pool had a temperature of 205°C and boiling temperature at that time was about 199°F. Dr. Scorah made 16mm colored motion pictures of the boiling effects caused by the presence of various metals placed in the waters. Wire coils were used and these each reacted in a different manner when placed in the super-heated non-boiling water. The wire coils caused various degrees of boiling intensity to take place. The types of coils used were galvanized wire, rusty iron wire, aluminum wire and copper wire. The most violent boiling reaction occurred when a coil of copper wire was placed inside a coil of aluminum wire and this combination caused the water inside the coil to raise as much as six inches above the surrounding surface.

The Highland Spring on the Mammoth Hot Spring Terraces, which has been very active since last April, is still spectacular and has a very heavy flow of water issuing from the crack or fissure at the brink of Highland Terrace. This water is coming out with considerable force, some of the jets shooting out 5 to 6 feet. Many of the trees which are in the path of the water flow have died and others are dying.

The Black Dragon Cauldron above the Mud Volcano area is still active but has changed its physical character considerable due to the absence of sufficient water to make the mud highly fluid.

Throughout the month bands of elk around the Gibbon and Madison rivers have provided a never ending wildlife display of unusual interest to park visitors. Wherever one of these bands of elk has been concentrating in the meadows large groups of cars will stop along the highways or on the pull-outs which they have made in the grassy parks.

Two permits to collect specimens were issued during the month. A permit to collect insects for the San Diego Natural History Museum was issued to J. A. Powell and J. O. Hunt and a permit to collect gases, water samples and rock specimens was issued to Giovanni Boato of the University of Chicago. Mr. Boato was participating in a research study being conducted by the University of Chicago on the isotopic analysis of nitrogen, hydrogen and carbon. This permit was issued August 25.

On August 21 the Trout Creek dumpground was visited in the evening. At that time 17 different grizzly bears were counted. One female with two very healthy appearing cubs joined the group at the dump site.

A large herd of bison were located in the upper end of Hayden Valley and 181 animals were counted, with many others apparently being present in draws and ravines where visability was obscured. On the 22nd a large lone bull bison was seen on Nez Perce Creek. This animal was especially interesting in view of the fact that he had only one horn. The other one had been broken off down next to the skull, making him an odd appearing animal for from one side he appeared perfectly normal and from the other side he looked like a mulley animal.

The trumpeter swan family consisting of adults and five cygnets on the small lake below Madison Junction were all intact and in good health on the 22nd.

Park Naturalist Wayne Replogle continued his study of the Bannock Indian trail during August and completed the manuscript for use in the preparation of a pamphlet telling the story of the old Bannock trail and the Indians of the Yellowstone region.

On August 27 Chief Park Naturalist Condon counted 54 bison in the lower geyser basin area. Of these, 37 were near the mouth of Nez Perce Creek and an additional 17 were in the Fairy Creek meadows.

On the 22nd a very interesting geyser was observed in eruption about 1-1/2 miles up Nez Perce Creek. This geyser emitted a large volume of water which drained out into Nez Perce Creek through a drainage channel. Its eruption was a violent boiling action similar to that which occurs in the Sapphire Pool. For a number of years on making trips into the Nez Perce valley evidence has been seen of a large volume of runoff from this geyser vent, but at no time has the opportunity presented itself to see the geyser in eruption until on the 22nd when it happened to be playing at the time a visit was made to this area.

Mr. Jack E. Smedley, geologist with the U. S. Geological Survey, was in the park for about 10 days near the close of the month and at that time made a paleontologic and stratigraphic survey of the Madison formation of the Gallatin Range. Mr. Smedley and his assistant measured sections of this strata on Quadrant Mountain and on Bannock Peak. They collected representative fossils from the formation and when these are classified a sample set will be made available for the Yellowstone Park collection.

On August 30 Chief Park Naturalist Condon, while on a trip out to the northeast on the Beartooth highway observed three very large bull moose feeding in a boggy willow park. The largest of these animals, which was an unusually fine specimen, walked out into the bog and dropped almost completely out of sight in a soft area, with only his head protruding out of the black gooey mud. This bull floundered for several minutes, virtually exhausting himself before he was able to get his front feet on some firmer terrain. When he had achieved this he stopped his floundering and rested for several minutes, puffing vigorously and dialating his nostrils. He had a rather frightened, wild look in his eyes. After resting and regaining his breath he again put forth a vigorous, floundering struggle and was able to get out of the mud on to firmer ground. Immediately after getting out he shook himself free of the mud which was clinging to his body and proceeded to calmly begin browsing on the willows, but avoided the soft section of the swamp.

Library

The librarian, Mrs. Lucile Wagner, completed her inventory of the library books and completed the classification of all the books and pamphlets on hand.

The books sent to the Dieter Book Binding Co. were returned to the park on the 25th and the librarian placed these in their proper stack positions.

Mrs. Lucile Wagner, who was employed by the library and museum association, terminated her services on the 28th and was taken to West Yellowstone on the 29th where she returned by train to Salt Lake City.

At the close of the month the Chief Park Naturalist issued memoranda to all divisions in Yellowstone who have books out on indefinite loan listing for them the books which are charged to them from the library and also those books which are charged to them from the library which the librarian could not find at the time she made her inventory.

Books received in August	7
Books in circulation in Aug.	230
Books on indefinite loan	108
Magazines received in Aug.	25
Pamphlets received in Aug.	17

Natural History Association

The executive secretary of the association wrote to several printers making inquiry concerning the costs of publishing a book on the plants of Yellowstone, this book to be authored by either McDougall and Baggley or Dr. Ray J. Davis.

The association received 10,000 copies of the Story of Old Faithful Geyser from the Edwards Brothers Lithoprinters by August 25. These publications were distributed to information desks for sale. This is a revision of the original issue of this publication which came out in late June.

The May-June Nature Notes, published by the association, were placed in the mail on August 10 and the July-August issue of Nature Notes was mailed out on August 26.

Mrs. Herma Baggley was in the executive secretary's office on August 31 and at that time the possibility of Mrs. Baggley and Dr. McDougall preparing the manuscript for a new book on the plants of Yellowstone was discussed. Mrs. Baggley is going to determine whether or not they could prepare a manuscript for a complete new edition of the plant book, and if they can do this job the book will be prepared by them; if they cannot Dr. Ray J. Davis is very anxious to attempt preparing such a publication.

Mrs. Alice Quist was employed by the association as clerk during the month and Mrs. Lucile Wagner as librarian.

Total book sales by the Association during August 1953 were $9,855.34. (The following tabulation compares the sales at the various selling stations during August 1953 with those made at the same places during the same month in 1952:

Station	August 1953 Sales	August 1952 Sales	Difference	% of Increase or Decrease
Bookroom	$ 173.24	$ 192.59	$ -19.35	10% decrease
Mammoth	1,758.20	2,385.50	-627.30	26.3% decrease
Madison	252.40	234.40	18.00	7.7% increase
Old Faithful	6,618.50	5,206.30	1,412.20	27.1% increase
Fishing Bridge	1,053.00	923.35	129.65	14% increase
	$ 9,855.34	$ 8,942.14	$ 913.20	10.2% increase

Equipment and Supplies

An ice box was obtained for the Norris museum quarters and placed there during the month.

The Eastman 16mm motion picture projector was over-hauled and placed in good condition on the 17th.

The new 16mm magnetic sound projector model 202 was taken to Old Faithful on the 18th for their use. The Bell and Howell model 185-C projector which did not operate satisfactorily was sent to the Bell and Howell Co. for repairs on the 24th.

A portion of the stationery supplies was received during the month.

Photographic and Visual Aids

Park Naturalist Verde Watson spent four days obtaining pictures, both black and white and colored, for use in illustrating needs of Yellowstone National Park for budget justification purposes. During the month there were two rolls of 36 exposure K-135 exposed, 44 4x5 black and white pictures, one roll of 100 ft. 16mm motion picture film and two rolls of 616.

Darkroom Work

30 - 8x10 bleedout prints made
30 - 8x10 enlargements of the White Lake fire
40 - 8x10 enlargements of artifacts for illustrative purposes
40 - 4x5 contact prints

Proposed Outline of Work for September

1. Publish the September-October Nature Notes.
2. Work on plans for the revision of the Old Faithful museum.
3. Prepare reports on securing protective and conservation objectives through interpretation.
4. Close all museums.
5. Make an inventory of the division's property.
6. Work on visual aids materials.
7. Complete the library and museum association's annual business and reports.
8. Routine work of the division.

Original - Superintendent
Copy to: Region 2 — Circulation (Reg. 2)
Director — Museum
9/9/53

Respectfully submitted,
David de L. Condon
David de L. Condon
Chief Park Naturalist

NATIONAL PARK SERVICE
OCT 6 1953 AM 10 03
General

209-02.4

UNITED STATES

DEPARTMENT OF THE INTERIOR REPORT 9M2

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
SEPTEMBER - 1953

There was an insignificant storm the first and second of September with a cold snap following it, but the balance of the month was ideal weather for park visitation and a large number of people enjoyed seeing Yellowstone without the impact of large crowds. There were lots of visitors, especially in the geyser basins, throughout the major part of the month and there was very little available for them in the way of interpretive services.

Administration

The activities of the division were directed by Chief Park Naturalist Condon during the month and the staff was diminished to permanent personnel by mid month.

Special Activities and Conferences

Mr. Paul F. Covel, a park naturalist of the Oakland City Parks, Oakland, California, was in the Chief Park Naturalist's office on the 3rd. Mr. and Mrs. Covel were enjoying a vacation period in Yellowstone.

On the 16th Chief Park Naturalist Condon prepared a special memorandum for the Superintendent containing his comments on the subject of criteria and categories of national park areas. On the 22nd a special memorandum was prepared dealing with the amphitheater needs of Yellowstone.

The 23rd day of September was given over by Park Naturalists Elmore, Watson and Condon to the project of getting signs which were placed on concrete monuments into place. These signs have been in a stock pile at Norris and the Lower Geyser Basin since last June. Signs were distributed to features in the Upper Geyser Basin, Lower Geyser Basin and Norris Geyser Basin.

Superintendent Earl M. Semingsen of Wind Cave National Park was in the Chief Park Naturalist's office for a short visit on the 25th and Chief of the Biology Branch Victor H. Cahalane was seen briefly on the 26th.

Religious Services and Chapel Use

All religious services conducted by the various denominations terminated during the month of September. The Roman Catholic services were

Bison cow with calf nursing - Nez Perce Creek,
9/21/53 - Photo by Condon

completed on the 30th day of August. The Latter Day Saints conducted their last services the evening of the 6th and the Ministerial Associations from Livingston and Cody conducted their last services on the 6th. The student ministry program sponsored by the National Council of Churches conducted their last services in the Yellowstone National Park Chapel on the 13th with the Rev. Warren W. Ost presiding.

The Yellowstone National Park Sunday School began its winter program of services on Sunday the 27th and will conduct services each Sunday morning at 10:30 for the balance of the winter. Mr. Thomas F. Garry is superintendent of this years Sunday School organization.

The local committee for the Christian Ministry in the National Parks held their fall meeting the evening of September 10 with Student Minister Jack Crossley presiding. Members of the committee voted to sponsor a full time minister for the winter of 1954-55 and the Rev. Warren Ost, Director of the Christian Ministry in the National Parks was asked to locate a suitable candidate for the resident minister job.

In-Service Training

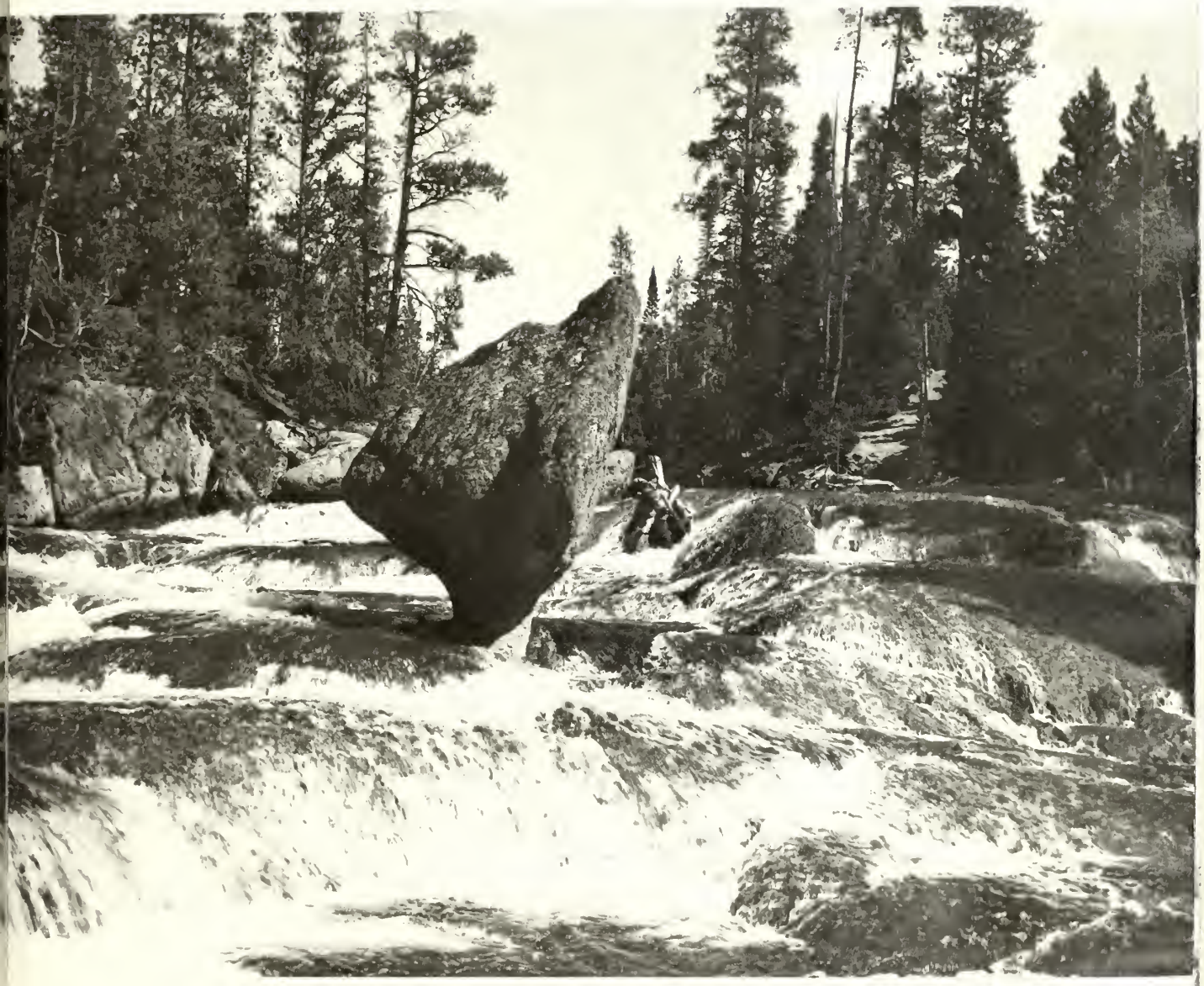
There were no in-service training activities carried on within the Naturalist Division but they did continue to assemble and distribute the mimeographed Yellowstone Park News Letter.

Interpretive Services

The program of interpretive activities continued at Old Faithful, Norris, Madison, Fishing Bridge and Mammoth through Labor Day. Activities were closed at Canyon on the 4th and West Thumb's activities closed the 31st of August. All walks and talks were discontinued at all stations on the 9th. The museums at Madison and Norris remained open through the 10th, the Fishing Bridge, Mammoth and Old Faithful museums were manned by seasonal personnel through the 15th. The Mammoth and Old Faithful museums have remained open through the month of September, but have been unattended except by permanent personnel when possible.

Park Naturalist Elmore gave special talks to tour groups at the Canyon Hotel on the evening of the 8th and 9th. There were 204 persons present on the 8th and 174 on the 9th. Park Naturalist Watson gave talks to tour groups at the Canyon Hotel the evenings of the 10th and 11th and reports there there were 130 persons in attendance at each talk.

(During August and early September tape recordings were made of programs presented by the following park ranger naturalists: Joe Murphy and Clarence Alleman, Herbert T. Lystrup and Simon Simonian, Fred Turner and Joe Catmull and Charles Gebler and George Marler. In addition to these programs, tape recordings were made of Clarence Alleman's activities at the Mammoth information desk and George Downing and Simon Simonian activities at the Old Faithful information desk. All of these tapes were sent to the Director's Office for his review and use.)



Duck Rock - an erosional pedestal rock in Gibbon River Cascades. 9/9/53

Photo Condon

Chief Park Naturalist Condon gave two talks outside the park during September; one to the Annual Dinner of the Baptist Church in Livingston on the 24th at which there were 97 persons in attendance and one to the Bozeman Federated Womens Clubs Annual Luncheon meeting on the 28th. There were 65 persons in attendance at this presentation.

Museum Activities and Exhibits

The Obsidian Cliff wayside exhibit was broken into on September 1 by vandals. This person or persons shattered the plate glass and stole from the exhibit 16 specimens which were used for display purposes. This consisted of arrowheads, stone hammers, spear points, knives and other Indian tools. There was no evidence available to help identify who might have been responsible for this vandalistic act and the exhibit was closed and shuttered up on the 2nd.

Mr. John W. Davis of Larned, Kansas gave to Yellowstone Park a photostatic copy of a newspaper article concerning his father's experiences with the De Lacy party in the Yellowstone area in 1863. This gift was made on September 1.

The Madison museum closed September 10, Norris museum September 10, Fishing Bridge museum September 15, and Old Faithful and Mammoth museums remained open but were unattended after the 18th.

There were six accessions and 14 items catalogued for the Yellowstone museums during the month. These included two bear hides which were received from Lentfer Brothers. They were sent to them in May for tanning. A nighthawk bird study skin was also added to the collection.

A grizzly bear was killed at Lake by District Ranger Stevens. It was skinned by Dr. Ray J. Davis and the skin and skull were given to the Idaho State College at Pocatello on an indefinite loan basis. The bear was taken care of on September 3.

Personnel

Park Naturalist Elmore was on duty all month except for one day sick leave taken on September 11. Park Naturalist Watson was on duty all month except for 7 hours annual leave and one day spent on the Chipmunk Creek fire. Clerk-Stenographer Bettilee Proznick was on duty all month except for 8 hours sick leave on September 9 and 6 hours on September 28. Chief Park Naturalist Condon was on duty all month except for one day annual leave taken on September 11.

George D. Marler was employed by the Engineering Division on the 21st for geyser basin cleanup work and will remain on the job through September.

Arch rock - a double pedestal arched rock remnant
near Gibbon Cascades. 9/9/53.
Photo - Condon

Termination of seasonal personnel for the 1953 season was as follows:

Name	At the close of duty on:
Willis Eggler	September 2
Ted J. Parkinson	September 3
Robert Jonas	September 3
Simon Simonian	September 3
Frank Rentchler	September 4
Kenneth Armitage	September 5
Ray J. Davis	September 6
Wallace Good	September 6
Joseph Catmull	September 7
Lowell G. Biddulph	September 7
Samuel M. Beal	September 7
Charles J. Gebler	September 8
Clarence C. Alleman	September 9
Joseph Murphy	September 9
Herbert Moline	September 10
Lewis Seaman	September 10
Arthur Nash	September 10
Robert Breitenbach	September 15
Frederick B. Turner	September 15
George D. Marler	September 18

Research and Observation

Francis Boyd, who has been doing research on the welded tuffs of Yellowstone Park, completed his field work on September 1 and left the park. Mr. Jack Smedley of the Geological Survey, who is collecting paleontological specimens from the Madison formation in the Gallatins, completed his work on the 3rd and left.

Some experimental work was done on September 4 with dye in Cupid Spring to see if the waters which were flowing into a large hole at this point reappeared at some point lower on the terrace. After several hours of observing there was no evidence that this water again put in its appearance in other springs on the terraces or at Hot River down near the Gardner River.

The Black Growler steam vent at Norris became much more active the fore part of the month of September and instead of issuing from two vents, returned to only one vent. Considerable noise and increased steam pressure were present and a temperature reading taken of it on September 9 indicated that its temperature was 208°F.

An inspection of the Inspiration Point area was made by Chief Park Naturalist Condon on the 18th with an objective of observing any physical evidence there that it would be undesirable to construct an observation platform on the extreme limits of the point. There is considerable fracturing

of the rhyolite lava at Inspiration Point. One fissure carried clear to the surface and there is pronounced undercut erosion taking place at the extreme end of the point. There, however, seems to be a reasonable foundation of solid rock and it may be a number of years before any slumping takes place from the point into the canyon area. Further study should be made of this before the constructing of the new observation platform is undertaken.

On September 19 a total of 168 head of bison, which can be attributed as members of the Lower Geyser Basin-Madison River drainage herd, were seen by Chief Park Naturalist Condon. On this date 109 animals were seen in one large herd in the vicinity of the old Fountain hotel site. An additional 56 head were across the Firehole River above the junction of Nez Perce Creek with the Firehole at the old Marshall hotel site. One bull was seen along the Firehole above Firehole Cascades and two bulls were seen in the meadow above Madison Junction. On the 26th during a visit into Hayden Valley there were 97 bison seen in one bunch down Alum Creek near the Violet Springs area and another small group of 16 was seen just beyond the Trout Creek crossing of the Mary Lake road and two old bulls were at the mouth of Antler Creek.

The fossil trees on lower Specimen Ridge were visited on the 27th. An examination of this area did not reveal that there has been any appreciable amount of vandalism or abuse of these trees during the past travel season. The erosional undercut under the large tree is increasing each year and at the present time it looks as though it will be a long time yet before this undercut is sufficient for the tree to fall downhill.

Library

The Yellowstone Park research library was used during the month by a number of interested persons, with Dr. Cope of the Fish and Wildlife Service spending many hours there on some research work. The library received the following use:

Books received in September	32
Books in circulation during Sept.	50
Books on indefinite loan	106
Magazines received in Sept.	20
Pamphlets received in Sept.	14

Natural History Association

The Yellowstone Library and Museum Association completed its annual years business at the end of the day on September 30 and the annual meeting of the board of directors of this association will be held Friday, October 9, in the Chief Park Naturalist's office. Mrs. Alice Quist was employed by the association as clerk during the month.

The association published the September-October issue of YELLOWSTONE NATURE NOTES. These were completed on the 29th and 375 copies sent out in the mail.

Group of fossil trees on Specimen Ridge. 9/27/53

Photo - Condon

The association closed its sales activities at the Madison museum on the 10th, at the Fishing Bridge museum on the 15th and at the Old Faithful museum on the 18th. Books were sold at the headquarters museum through the 30th.

Station	Sept. 1953 Sales	Sept. 1952 Sales	Difference	% of Increase or Decrease
Bookroom	$ 102.22	$ 173.49	$ 71.27 de.	41.1% decrease
Mammoth	301.40	351.00	49.60 de.	14.1% decrease
Madison	30.20	25.80	4.40 in.	17.1% increase
Old Faithful	1,118.80	1,079.87	38.93 in.	3.6% increase
Fishing Bridge	134.20	114.75	19.45 in.	16.9% increase
	1,686.82	1,744.91	58.09 de.	3.3% decrease

Equipment and Supplies

The inventory of all physical property of the Division was virtually completed during the month of September and there were no shortages except for the stolen telescope at Lake Butte.

The portapage unit which was on loan from Graybar Electric Co. was returned to them on September 17. This particular piece of equipment worked out satisfactorily and it is hoped that we will be able to obtain at least two of these units for the 1954 season.

Photographic and Visual Aids

During the month 200 feet of 16mm Kodachrome film was exposed and three rolls of K-135. One hundred and eighty Kodaslides were bound and labeled for the Yellowstone Park collection and four of the six field sets of slides were checked and placed in storage for the winter.

Three sets of Kodaslides were prepared and sent to the Director's and the Regional Director's offices for their use. These consisted of a set of 18 showing concessioner buildings and operations for use of Assistant Regional Director Lloyd. Twelve slides were sent showing roads and parkway scenes and 17 were sent on services rendered to the public.

Considerable time was spent around the first of the month by Park Naturalists Condon and Watson obtaining black and white shots of subjects which could be used in presenting justifications to the Bureau of the Budget for funds.

The darkroom work consisted of the development of 105 4x5 negatives, two rolls of 616 film and the preparation of 180 4x5 black and white film.

Proposed Outline of Work for October

1. Publish the November-December issue of Yellowstone Nature Notes.

Finger rock in the Firehole River. 9/9/53
Photo - Condon

2. Complete the inventory of all property and submit reports on this.

3. Attend the Absaroka Conservation Committee meetings.

4. Work on plans for the exhibit at the Old Faithful museum.

5. Work on visual aids materials.

6. Hold the annual meeting of the Yellowstone Library and Museum Association board of directors.

7. Work on the assembling and editing of 16mm motion pictures.

8. Routine work of the Division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original - Superintendent ✓
Copy to: Region Two
Circulation (Region Two)
Director
Museum

NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
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UNITED STATES

DEPARTMENT OF THE INTERIOR

REPORT 9M2

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
OCTOBER - 1953

General

The month of October was as delightful in character as was September, with only a light snow occurring over most of the park on the 2nd of the month and overcast skies with light storms in places on the 15th. At the close of the month skies were overcast and storms were threatening. There were lots of people visiting the park during October and good sized crowds were in attendance at most eruptions of Old Faithful geyser. On the 23rd a very large group of people had accumulated in the vicinity of the Giant Geyser during its eruption. The activities of the Naturalist Division were retarded due to the fact that members of the staff were using annual leave to some extent during this month.

Administration

Chief Park Naturalist Condon directed the activities of the division during the month of October.

Special Activities and Conferences

The Chief Park Naturalist attended the Absaroka Conservation Committee meeting on October 4 in the canteen building as a representative of the Yellowstone Library and Museum Association, which is a large contributor to the funds of this committee.

Regional Director Howard Baker stopped in the Chief Park Naturalist's office on the 5th for a very short visit.

Mr. Wayne Hackett, U. S. Commissioner for Rocky Mountain National Park, stopped in at the Chief Park Naturalist's office on October 5 for a visit.

Park Naturalist Watson served on a quarters rental review committee that spent the days of October 6 and 7 in Livingston, Montana securing rental data for use by the Superintendent. Members of this committee were Howard Kocher, Ruben Hart, William Wright and W. Verde Watson.

Dr. Allan Norton of Flint, Michigan was in the Chief Park Naturalist's office on the 12th at which time the Chief Park Naturalist reviewed a motion picture on Yellowstone which Dr. Norton is preparing. This picture is entitled "Wyoming's Pressure Cooker Country." The movies reviewed ran for 1-1/2 hours and were not outstanding. Much of the poor quality of the pictures may have been due to the print and not to the original film itself.

e vent of Old Faithful Geyser. It is gratifying to note the rebuilding, n
nerally greatly improved appearance of the delicate sinter formations, compara-
ve lack of debris and absence of carved and ritten inscriptions around this
mous thermal feature since concerted effort has been exercised to keep the
siting public off of it. hoto by Condon, 11/4/53

A number of suggestions were made to Dr. Norton with respect to the narration which he presents with the picture and also concerning some of the pictures shown.

A special memorandum for the Superintendent was prepared on the subject "Protection Through Interpretation." One was written by Chief Park Naturalist Condon and one by Park Naturalist Watson.

The Chief Park Naturalist reviewed for the Superintendent the chapter on Yellowstone and the bibliography presented in the book YOUR WESTERN NATIONAL PARKS by Dorr G. Yeager. The suggestions for revisions on this chapter were sent to Mr. Yeager.

The Chief Park Naturalist made a trip to the Canyon-Lake areas in company with Superintendent Rogers, Assistant Superintendent Hamilton, Resident Landscape Architect Mattson and Park Engineer Wohlbrandt for the purpose of reviewing construction plans for the Inspiration Point observation platform and stairway.

Religious Services and Chapel Use

The regular Sunday School services of the community were held each Sunday at 10:30 a.m. in the Yellowstone National Park Chapel. The Chapel will be used alternately with the community of Gardiner for religious services conducted by members of the Park County Ministerial Association. These services will begin in November.

In-Service Training

There were no activities of an in-service training character carried on by the Naturalist Division. The division continued to mimeograph and distribute the News Letter.

Interpretive Services

Chief Park Naturalist Condon presented a talk on the geysers and thermal phenomena of Yellowstone to the Absaroka Conservation Committee group on the evening of the 3rd. There were about 60 persons in attendance at this program.

On the 13th Chief Park Naturalist Condon went to Bozeman, Montana where he presented a talk to the Bozeman Garden Club. There were about 150 people present and as illustrative material the motion picture "Geyserland" was used.

On the 20th the Chief Park Naturalist and Park Naturalist Watson went to Old Faithful where they experimented for some time with the use of the Ekotape tape recorder for use as a public address unit, as a player for musical entertainment and as a recorder of the program presented. It is thought that this tape recorder can serve three functions, that of providing entertainment prior to the formal program and can serve the dual purpose of a public address system at the same time it is recording the program which

Devastated area adjacent to "Black Dragon Cauldron" - mud flows and trees covered with ejected mud from this comparatively new feature in the vicinity of Dragons Mouth. Photo by Condon - 10/16/53

is presented. The experiments with it indicate that this can be done providing the personnel will use the equipment with care and will put forth the effort to make it function properly.

Museum Activities and Exhibits

There were five new specimen cases for museum storage received on the 16th. One of these was slightly damaged but was repaired locally. These cases add materially to the storage space available at the headquarters museum. The big problem now is to find a place to put them since the existing space is badly crowded and no additional room seems to be available.

The shutters were placed on the field exhibits at Willow Park where the moose exhibit occurs, at Obsidian Cliff, in the Norris Museum foyer and in the Firehole Canyon. This work was done on the 23rd.

Personnel

Park Naturalist Elmore left on annual leave October 7 and was in an annual leave status through the 9th. He began military leave on the 12th and carried in this capacity through the 23rd. From the 26th through the balance of the month he was on annual leave and expects to return to duty by November 12.

Park Naturalist Watson was on duty all month except for 8 days and 2 hours annual leave.

Clerk-stenographer Bettilee Proznick was on duty all month except for 4 hours dental leave and 12 hours annual leave.

Chief Park Naturalist Condon was on duty all month except for 10 hours of dental leave taken on the 21st and 28th and 16 hours annual leave taken on the 15th and 30th.

Research and Observation

Mr. David Howcroft of Newport Beach, California was in the Chief Park Naturalist's office on November 1 and at that time discussed with him historical data on the park. Mr. Howcroft was very much interested in P. W. Norris for he had spent the early years of his life in a house at Norris, Michigan which had been the large house of P. W. Norris. Mr. Howcroft well remembers an accumulation of material in the attic of this house which pertains to Yellowstone Park and consisted of notes made by Mr. Norris on a number of his trips and also a large collection of specimens of rocks, geyserite and other items which Mr. Norris had collected in Yellowstone Park. Mr. Howcroft was of the opinion that this material might still be in the attic of that house and indicated that he was going to put forth some effort to determine whether it was there or not, and if so get possession of it and make it available to Yellowstone Park.

Margaret Altmann, who has been studying the social behavior of elk, and Mr. James Upsahl were in the headquarters museum on the 2nd and

Coyote hunting for food in meadows near Old Faithful. 10/16/55
Photo by Condon

3rd using the Yellowstone Park library. Two Fish and Wildlife Service biologists were in the Chief Park Naturalist's office on the 5th seeking information on duck nesting areas of the park. (These men were referred to Biologist Kittams who supplied them the information they were seeking in addition to that which they obtained from the library and members of the Naturalist staff.)

(Chief Park Naturalist Condon made trips into the field on the 8th, 11th, 13th, 14th, 16th, 20th and 23rd. Park Naturalist Watson made trips on the 23rd and 28th.)

On the 13th Biologist Kittams (called to report that he had) located a trumpeter swan which had been severely injured and was on a lake in the vicinity of Junction Butte. Chief Park Naturalist Condon went out and met Kittams at what is known as "Lake LaCombe" at Junction Butte. On this body of water was a lone swan which had been injured, had one wing badly mangled and had bled rather profusely, with the bright red of the blood contrasted with the white of the feathers. This bird swam into the middle of the lake and could not be approached. After disturbing the bird a bit and observing its injuries through binoculars, Kittams and Condon returned to their cars with the intention of returning later with a boat and catching the bird. Immediately after they reached their cars the swan swam to the far end of the lake, went out onto the shore and climbed the slope of Junction Butte for a distance of 100 yards where it hid in the sagebrush.

Condon and Kittams then approached the bird and experienced little difficulty in capturing it. Its right wing was badly broken and mangled and its left wing had been injured but not so severely. The bird was bundled up in an old jacket and taken to Mammoth with the intention of taking it to a veterinary in hopes that it might be salvaged at least for use as an exhibit specimen in a zoo, since the wing was undoubtedly injured so that it could not be mended. The bird, however, died and was taken to Montana State College at Bozeman by Condon where it was turned over to the Zoology Department for a specimen. Clifford Davis, who has charge of the ornithology work, was to make a detailed report on the extent of the injuries suffered by the bird, and if possible, determine what might have been responsible for these injuries. As yet a report from the college has not been received. It is thought that a coyote might have been responsible for the injuries which resulted in this swans death.

The bison it seems were much less common in the Lower Geyser Basin area, along the roadways at least, during the month of October and especially so toward the end of the month in contrast to the large numbers that were seen often during the month of September. (A group of 43 were seen on the 11th in the Lower Geyser Basin, 27 on the 14th and a small group on the 20th. Three bulls have been commonly seen in the vicinity of Madison Junction and another three bulls are always seen in the meadows near Old Faithful Geyser.)

Two coyotes have taken up roadside begging this fall, one in the vicinity of Old Faithful, usually seen around the Castle or Daisy Geysers parking areas and another has been commonly seen in the vicinity of Madison Junction. Both of these animals have been accepting food from the hands of park visitors and some pictures were made of the animal at Old Faithful by members of the Naturalist staff.

Left to right, William Wiggins, Sanitation Officer; Superintendent Rogers and Phillip H. Wohlbrandt, Park Engineer, on the occasion of the presentation of Department of the Interior Meritorious Awards to these two Yellowstone officials by their Superintendent. Photo by Condon
11/5/53

The Great Fountain Geyser was observed in eruption on the 14th and at this time the overflow time was carefully observed. The geyser overflowed for an interval of 53 minutes from the time water started flowing over the terrace from the crater until the geyser erupted.

On the 16th Chief Park Naturalist Condon spent considerable time in the Mud Volcano area and made observations of the Black Dragons Cauldron. The activity at this feature has changed significantly from that which was prevalent during the month of September. On the 16th there was a pronounced amount of activity along a crack or fissure which was about 50 feet in length, with fountains of black fluid mud being thrown up into the air as much as 25 feet in height from several vents along this fissure. The mud of the Black Dragon's Cauldron's crater is much more fluid than it was during September and August and is not being thrown to near the height by the issuing steam and gas. The level of "Sour Lake," the rather large green colored lake adjacent to the Black Dragon's Cauldron, has been lowered about 38 inches since July with the mud level in the Black Dragon's Cauldron being about 18 inches lower still than the water level of the "Sour Lake." Evidence indicates that there is a subterranean leakage of water, probably from the "Sour Lake" into Black Dragon's Cauldron and that this is the source of water which has made the mud more fluid. If the water level continues to fall as rapidly as it has in the "Sour Lake" area during the winter months this lake will no longer exist next spring. (It is anticipated that further observations of this feature will be made before the roads are snowed in.)

(On the 16th in addition to observing the Black Dragon's Cauldron, a trip was made completely around the loop and at that time 2 black bears were seen near Inspiration Point, 3 on the road between Lake and Thumb, 2 on the road between Thumb and Old Faithful and 3 between Old Faithful and Mammoth. It was rather unusual to see as many as 10 bears along the roadside this late in the fall. Three bears, a mother black bear and 2 cubs, were seen on the 20th near the Firehole Cascades. On the 16th a total of 367 geese were counted along the river between Lake and Canyon. This is by no means a complete census of the birds along that stretch of water, but only those that were hurriedly counted while driving this road.)

(On the 11th the Beehive, Old Faithful, Castle, Daisy, Great Fountain and Lion geysers were seen in eruption and on the 23rd the Giant began its eruption about 1:00 p.m.)

(Park Naturalist Watson has observed large flocks of western robins feeding on the juniper berries in the vicinity of Mammoth. On occasions a dozen or more birds were observed in one tree and around all juniper trees there was a great amount of litter from the hulls of the berries.) Two starlings were observed (by the Watsons) on the 23rd in the residential area below the hill at Mammoth and two large flocks of these birds were seen by Condon) on the 28th below Yankee Jim Canyon in Paradise Valley.

Library

Books received in October	12
Books in circulation	52
Books on indefinite loan	106
Magazines received in October	15
Pamphlets received in October	21

Natural History Association

Mrs. Alice Quist continued her employment as clerk of the Association and worked the major part of the month of October.

The annual meeting of the Yellowstone Library and Museum Association was held in the Chief Park Naturalist's office on October 9. The years business of the Association was reviewed and reports were submitted to the Board of Directors. Mr. Jack E. Haynes resigned as treasurer of the Association and Mrs. Alice Quist was elected to that position. The Board of Directors of the Association for the coming year will be composed of Edmund B. Rogers, Warren Hamilton, Otto Brown, James Brown, Verde Watson, Alice Quist, William Proper, Jack E. Haynes, Joseph Joffe, Francis Elmore and David de L. Condon. Mr. James Brown was elected chairman of the Board for the 1954 year. Reports covering the activities of the Association for the 1953 year were submitted to the Superintendent, Director of the National Park Service and the Regional Director.

The copy for the November-December issue of Yellowstone Nature Notes was completed and this issue will be placed in the mails early in November.

Equipment and Supplies

Five new specimen storage cases were received on the 16th and on the 19th the 16mm motion picture projector which was sent to Bell and Howell for repairs was returned in good condition.

Photographic and Visual Aids

On the 5th slides were loaned to the Region for the use of Assistant Regional Director Lloyd and Regional Director Baker in presenting talks. Twelve Kodaslides were sent to Mr. Sigler of Utah State Agriculture College so that school might have duplicates made of them. These slides dealt with fish.

On the 26th 37 Kodaslides were sent to Charles Gebler for his use in presenting talks at the University of Michigan. One hundred Kodaslides were bound for the files and all field sets were checked and made ready for additions and repairs if necessary.

The black and white negative file was brought up to date and all records of this type completed.

One roll of K-135 film was exposed and 24 black and white pictures were made.

Darkroom

Forty 8x10 enlargements were made.

Proposed Outline of Work for the month of November

1. Submit plans for the revision of the Old Faithful museum exhibits.

2. Mail out the November-December issue of YELLOWSTONE NATURE NOTES.

3. Work on prints for the photographic files on the pictures taken during 1953.

4. Revise the basement storage area at the Mammoth museum.

5. Work on 16mm motion pictures.

6. Routine work of the Division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

207-02.4

1953 DEC 9 AM 9 06

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT 9M2

Yellowstone National Park
Yellowstone Park, Wyoming

12-9-53

MONTHLY REPORT OF THE NATURALIST DIVISION
NOVEMBER - 1953

General

The month of November was another one composed largely of fine weather. There were three small storms, none of which greatly restricted travel to the Park and within it but the roads were closed from public travel on November 24.

Considerable leave was used by Chief Park Naturalist Condon and Park Naturalist Elmore. Bettilee Proznick resigned her position as Clerk-Stenographer November 23, with the result the personnel on duty in the Naturalist Division was limited during the month of November.

Administration

Park Naturalist W. Verde Watson functioned as the man in charge of the Naturalist Division activities for the greater part of the month.

Special Activities and Conferences

Large numbers of informational and place name signs were brought in from the geyser basins so that they can be mounted in the winter months on the concrete sign bases. It is hoped that at least 80 of these can be made this coming winter.

Park Naturalists Watson and Condon attended the staff meeting on November 5, at which time meritorious awards were presented to Park Engineer Wohlbrandt and Sanitation Officer Wiggins. Several pictures were taken of this ceremony.

A special staff meeting was attended in the office of Acting Superintendent Hamilton on the 19th. Subject discussed was the elk management program and in attendance were Park Biologist Kittams, Asst. Chief Park Ranger Chapman, Chief Ranger Brown, Chief Park Naturalist Condon, and Acting Superintendent Hamilton.

On the evening of the 19th, a special show was held in the Mammoth Canteen by Park people with the capacity in attendance. The pictures shown were Walt Disney's "Bear Country", "Beaver Valley", and "Nature's Half Acre". These pictures were enjoyed fully by everyone.

Religious Services and Chapel Use

The regular Sunday School services of the community were held each Sunday at 10:30 a.m. in the Yellowstone National Park Chapel. Church services were held at 7:30 p.m. on the evening of the 1st and the 29th with the Reverend Lewis Ortmayer conducting the services on the 29th.

The Gardiner-Mammoth Youth Fellowship Organization held their meetings in the Chapel at 6:00 p.m. on Sunday, the first, eighth, and 29th.

A beautiful wedding was held at the Chapel at 3:00 p.m. on the 29th when Miss Bettilee Proznick, who has been Clerk-Stenographer in the Chief Park Naturalist office for the past five years, was married to Mr. Tom Hallin, Yellowstone Park Company engineer.

In-Service Training

There were no activities of an in-service training character carried on by the Naturalist Division. The division continues to mimeograph and distribute the News Letter.

Interpretive Services

Chief Park Naturalist Condon made a trip to Billings, Montana, where he presented a program to the Audubon Society group there at 8:00 p.m. on the evening of the 17th. Condon discussed the birds of Yellowstone placing special emphasis on the conservation program which has resulted in the preservation of the trumpeter swan. There were about 80 people in attendance at the program and proved to be very receptive.

Museum Activities and Exhibits

The shutters were placed on the Old Faithful Museum on November 4, and it was closed for the 1953 season. There were a few cars assembled at the Geyser Basin parking lot at Old Faithful but there were very few people moving about the Geyser Basin. There were very few people visiting the Mammoth Museum during November and at the close of the month the museum was closed for the 1953 season.

Park Naturalist Elmore devoted virtually all of his time on duty for the month of November to working on the assembling of material for use in the preparation of exhibits for the Old Faithful Museum. Plans for some of the exhibits will be sent to the laboratory shortly after the first of December.

About mid-month the shutters were placed on the Obsidian Cliff, Artist's Point and Fire Hole Canyon exhibits.

Personnel

Park Naturalist Elmore was on duty all month except for 7 days of annual leave.

Park Naturalist Watson was on duty all month. Chief Park Naturalist Condon was on duty all month except for 72 hours of annual leave and 6 hours of sick leave.

Clerk-Stenographer Bettilee Proznick was on duty until noon of November 23, except for 5½ hours of annual leave and 8 hours of sick leave. Miss Proznick terminated her services as Clerk-Stenographer on November 23, after having served in that capacity for about five years.

On November 30, Mrs. Mary Rohn, wife of Park Ranger John Rohn, was in and expressed her desire to secure employment as Clerk-Stenographer and arrangements are being made to secure her services for this position.

Research and Observation

On November 3, Superintendent Edmund B. Rogers, Jack E. Haynes, Park Naturalist W. Verde Watson, and Chief Park Naturalist Condon made a trip to the Norris Geyser Basin for the purpose of establishing the exact identification of features to which certain place names apply. The major part of the day was spent in the basin and the definite location of certain features and groups of features were agreed upon by the group. It was determined that it would be desirable to eliminate from further use the place names Grindstone Spring, Vermillion Spring, and Apple Green Geyser. These names will be abandoned because the features to which these were applied no longer exist in a form by which they can be identified in keeping with these names.

It was decided that there were a number of features in the Basin, especially along the self-guiding nature trails, to which names should be given and appropriate names will be selected before the next season and applied to these phenomena.

On the return trip from Norris, in the evening, there were three elk seen near the center of Lemonade Lake at Roaring Mountain. It was rather an odd sight to see the animals in such a location but they seemed to be enjoying wading about in the water. There were two cows and one calf and pictures were made of them for record purposes.

On November 4, Park Naturalists Watson and Condon made a trip to the Grand Canyon area and to the Upper Geyser Basin. Of unusual interest at the Canyon was the low volume of water in Yellowstone River. Exactly what the stream gauge record will show is unknown but the river was the lowest either of these Naturalists had seen it. Almost all of the water at the lower falls was coming through the notch on the south side of the break with only a very thin stream of water coming down the main front.

On the 13th, Park Naturalist Elmore and Watson made a trip to the Upper Geyser Basin and at that time had the friendly coyote come up to them in the Black Sand Basin. On their return trip from the Black Sand Basin to Castle, they saw three additional coyotes and so there are apparently a considerable number of them in that area. Coming home at evening 75 bison were counted near the mouth of Sentinel Creek.

Park Naturalist Elmore reports that ~~an abandoned~~ a banded magpie is coming to the feeder station at his home.

Library

Books received in November	9
Books in circulation	52
Books on indefinite loan	106
Magazines received in November	15
Pamphlets received in November	21

Natural History Association

Mr. Joe Bill, of the Yellowstone Park Company, gave the Yellowstone Library and Museum Association a supply of scrap paper from the print shop. This paper is used for printing price labels, exhibit labels, tickets, and other purposes.

Mrs. Alice Quist, clerk of the Association, was not on duty during the month of November and book sales were handled by Park Naturalist Watson. The sales for November were $17.46.

The November-December issue of Yellowstone Park Nature Notes were prepared by members of the Naturalist's staff and placed in the mail on November 12th.

Equipment and Supplies

One pair of the Yellowstone Library and Museum Association binoculars were out on loan for use in the elk trapping operations. It is anticipated that the other two pair will be placed in use in December.

Photographic and Visual Aids

On November 4, a number of photographs were made of the Old Faithful Geyser cone and the center around the vent. These pictures were both black and white and movies. On the 5th, 6 exposures were made of 4x5 black and white of the presentation ceremony of the meritorious awards to Mr. Wiggins and Mr. Wohlbrandt by Superintendent Rogers.

Two sets of 2x2 Kodaslides were sent out on a loan basis for the month. One hundred and twenty-five slides were sent to Mr. C. Max Bauer of Orlando, Florida, and one set was sent to the Superintendent of Saratoga National Historical Park.

Four 8x10 glossy prints of Sheepeater Cliffs were sent to the Geological Institute of America for use as illustrations in a book they are preparing.

The darkroom work consisted of the development of 40 4x5 black and white negatives and 24 8x10 prints and 60 8x10 glossy prints were made.

Proposed Outline of Work for December

1. Work up the estimates for the Naturalist Division for the 1956 fiscal year.

2. Submit and work on plans for the Old Faithful Museum revision.

3. Prepare January-February issue of Yellowstone Park Nature Notes.

4. Work on the Kodaslide collection.

5. Work on the black and white print collection.

6. Edit and send out for duplication 16mm motion pictures.

7. Routine work of the division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Copy to: Region Two
Circulation (Region Two)
Director

Mailed to Reg. 2-9-53

NATIONAL PARK SERVICE
1954 JAN 11 PM 4 04
YELLOWSTONE NATIONAL PARK

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT 9M2

MONTHLY REPORT OF THE NATURALIST DIVISION
DECEMBER - 1953

General

The Naturalist Division probably accomplished less during the month of December than it has for several years. Park Naturalist Watson, Park Naturalist Condon and Clerk-Stenographer Rohn were all gone on annual leave for portions of the month and Park Naturalist Elmore used some dental leave. This, combined with the Christmas periods, resolved itself in very few man hours of work being accomplished during the month in contrast to other years.

Administration

The activities of the Naturalist Division were directed by Chief Park Naturalist Condon who returned to the museum periodically although in an annual leave status.

Special Activities and Conferences

Chief Park Naturalist Condon attended the regular staff meeting held in the superintendent's office on December 10. He accompanied Joe Joffe to Livingston on December 17 at which time they attended the annual meeting of the Park County Rod and Gun Club.

Religious Services and Chapel Use

The regular Sunday School services of the community were held each Sunday at 10:30 a.m. in the Yellowstone National Park Chapel. The Sunday School attendance has been exceptionally good with an average of about 70 persons in attendance. There was a special Christmas program held by the Sunday School on December 20. The Youth Yellowship group and the Gardiner Sunday School put on a pageant entitled"Shining Candles " on December 20 in the Yellowstone National Park Chapel and music was provided by the Youth Choir. This service was held at 7:30 p.m. The Reverend E. A. Syms, of Livingston, Montana, conducted the special Christmas eve services at the Chapel at 7 p.m. The Children's Choir of Mammoth provided special music and a large number of local residents were in attendance. On December 27, at 7:30 p.m., Revenend Dennis of Pine Creek conducted the bi-weekly church services in the Yellowstone National Park Chapel.

Interpretive Services

A 16mm motion picture film entitled "Wild Animal Heaven" was sent out on loan to Dr. Alan Norton and was shown to two camera groups in the Detroit area. About 160 camera club members studied the movie.

On December 26, the motion picture "Geyser Land" was sent on loan to Dr. C. Max Bauer at Orlando, Florida. On December 14, Chief Park Naturalist Condon presented a talk to the annual 4-H club awards meeting at Pray, Montana. There were about 100 persons at this program.

Museum Activities and Exhibits

Park Naturalist Elmore devoted most of his time to continued preparation of the rough drafts of the exhibits being revised for Old Faithful Museum. These were reviewed by Chief Park Naturalist Condon and suggestions made for some changes. Two of these were sent to the Museum Branch during the month for their use in preparing exhibits. On December 6, part of the exhibit in Old Faithful Museum on New Zealand Geysers was removed so that it could be included on the new panel which is being prepared on that case. On December 17, Mr. Henry Lentfer of Livingston, Montana, contributed to the Yellowstone archeological collection a number of arrowheads, scrapers, knives and other items which he had found in Yellowstone through the many years of his association here. This is a splendid addition to the Indian material which we have.

Personnel

Mrs. Mary B. Rohn entered on duty as Clerk-stenographer on December 2. A new position description was prepared for the personnel section for the Chief Park Naturalist position.

Park Naturalist Elmore was on duty all month except for one hour of annual leave and 12 hours of dental leave.

Park Naturalist Watson left on annual leave the morning of December 11 and was on leave the balance of the month.

Chief Park Naturalist Condon began annual leave on December 14 and was on leave the balance of the month.

Clerk-stenographer Rohn left on leave-without-pay and sick leave on December 23, and was gone through the remainder of the month.

Research and Observation

Park Naturalist Elmore devoted one day to the review of reports and file records on wild life observations for the purpose of determining the authenticity of reports of wolves, cougars, and whitetailed deer in Yellowstone. This information was condensed and submitted to Biologist Kittams for inclusion in the annual wild life report.

On December 8, Park Naturalists Condon, Watson and Elmore made a field trip to Old Faithful for the purpose of observation of wild life and hydrothermal phenomena and to get some exhibits from the Old Faithful

Museum. On this trip a number of interesting observations were made. In listing the animals observed, there were seven coyotes seen in the course of the trip, one bull moose observed on the Firehole River, Rocky Mountain mule deer were seen on the terraces at Mammoth and in the Old Faithful area. Elk were observed in the Roaring Mountain area; near Nymph Lake; and the Gibbon Meadows; near Terrace Springs and in the vicinity of Old Faithful. One herd of 192 animals was counted on the Swan Lake Flats. A herd of 70 bison was seen near the junction of the Nez Perce Creek in the Firehole River. Three bulls were seen across the Firehole River near the confluence of Sentinel Creek with that stream. Two other large bulls were seen down the Firehole near the cascades and seven animals were seen on the Fountain Flats.

A number of black and white pictures, kodachrome pictures and some movies were made of these animals.

Chief Park Naturalist Condon investigated two bear hibernation dens; the one on the Gibbon River was unoccupied but the one near Gem Pool in the Upper Geyser Basin contained a bear which was very much awake. After crawling part way into the den and shining a flashlight in the back portions of the den, the bear sat up in its nest and swayed back and forth growling and upon Condon's attempting to move a little closer, the bear growled feriously and began to move forward with the result that Condon retreated from the den. Attempts to get the bear to come out of the den so that photographs could be made were to no avail.

A large number of black and white, kodachrome and some footage of motion picture film were made of Ghost Trees in the Norris Geyser Basin and along the Gibbon river.

Library

There were several new books obtained for the Yellowstone Library and Museum Association and those of outstanding interest were Indian Legends of the Pacific Northwest by Clark, The Story of Colt's Revolver by Edwards, Radiocarbon Dating by Libby, Birds and Mammals of the Sierra Nevada by Sumner and Dixon and Crater Lake - The Story of its Origin by Williams. In addition to this, there were 14 magazines and 5 pamphlets received during the month of December.

Natural History Association

The Executive Secretary of the Association corresponded with other Natural History Associations and received splendid cooperation from them in obtaining copies of their constitution and by-laws. A committee, composed of Commissioner James Brown, Chief Ranger Otto Brown, and Chief Park Naturalist Condon are working on a revision of the constitution and by-laws of the Yellowstone Library and Museum Association. They will have their recommendations for revisions ready for the board of directors some time in January.

Mrs. Alice Quist, clerk of the Association, worked only ten hours during the month of December. The book sales for the month were $32.65.

The Association purchased, as a piece of equipment, a Webcor tape recorder which will be used to record talks given at the evening programs.

Equipment and Supplies

(5)?

The give new storage cases received during November were placed in the basement of the Museum after rearranging the area. The Museum workshop was rearranged to provide more working space.

Photographic and Visual Aids

There were 12,800 feet of 16mm motion picture film cleaned and repaired during the month. A sound track was put on two reels of the 16mm motion pictures. It was found that one entire reel of the film "Wild Animal Heaven" was very badly damaged by one of the field stations and it may be that this reel will have to be replaced entirely.

Park Naturalist Watson devoted several days of his working time to photographic work, especially in the darkroom. Darkroom work included 8X10 enlargements - 55, 4X5 contact prints - 325, film processed, 4X5 - 30. Film exposed in the field: 200 feet kodachrome 16mm, 1 roll of K-135, 24 4X5 black and white. Park Naturalist Watson did extensive work on the revision of the kodachrome slides. Many originals have been placed in a reference file since they do not have a high pictorial value but do have historical value.

Proposed Outline of Work for January

1. Preparation of January-February Yellowstone Park Nature Notes.

2. Edit manuscripts on the Bannock Indian trail, the reptiles and amphibians of Yellowstone, and the story of the Norris Geyser Basin.

3. Completion of further panels in the Old Faithful Museum revision.

4. Edit 16mm motion picture film.

5. Routine work of the division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

...inal - Supt
...y to: - Region Two
Orientation Reg Two
Director
Museum

1/11/50
Sub Reg Two

Sept. 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

YELLOWSTONE NATIONAL PARK

(Park or Office)

FILE NUMBER
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MONTHLY REPORTS, NATURALIST DIVISION 1954

(Activity)

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MONTHLY REPORT OF THE NATURALIST DIVISION
JANUARY - 1954

General

The activities of the division were confined largely to inside work at the headquarters museum and to planning for the improvement of museum exhibits and toward the coming season's interpretive program. The weather for the month was exceedingly cold and stormy and, at times, Yellowstone experienced high winds. All of the Park Naturalists were out in the field two or more days during the month for the purpose of making wild life management observations.

Administration

Chief Park Naturalist Condon supervised the activities of the division up to and through January 15, when Park Naturalist M. Verde Watson took over as Acting Park Naturalist and served in that capacity during the balance of the month.

Special Activities and Conferences

The Chief Park Naturalist attended the regular staff meeting for division heads in the office of the Acting Superintendent on January 14.

Considerable time was devoted in early January to the preparation of information for use in the 1956 budget estimates. The material provided all the needs of the Interpretive Division and was submitted in two memoranda. One was a long 15 page treatment of the needs for funds by the division and detailed justifications for each item requested. This was submitted to Acting Superintendent Hamilton and a short memorandum containing those items carrying highest priority was submitted to Administrative Officer Ernest R. L. Anderson for inclusion in the overall Park's estimate submission. These were submitted January 5.

On January 14, several men, who were here from the North Dakota Fish and Game Department, spent the better part of the day in the headquarters museum and used the Yellowstone Park research library.

Chief Park Naturalist Condon sat in on conferences in the Regional Director's Office in Omaha on January 18, 22, and 28, on the interpretive development outline for Yellowstone National Park.

January storms dropped about two feet of snow at Park Headquarters and provided a rather wintry scene on the 25th, but by the end of the month the average depth at Mammoth was only a foot. Photo by Watson.

Members of the Interpretive Division have read with interest the annual Forestry Report of Yellowstone. The Interpretive Division contributed to the forestry program, as it was operated in the past year, in a variety of ways. The Interpretive program has included cautionary information on forest fire problems at the evening campfire talks, at the public information desks and on guided trips. On guided trips information and educational treatment of forest ecology and other problems related to forestry are given to Park visitors by Park Ranger Naturalists. This type of information increases the Park visitor's knowledge of forestry problems and furthers the protection of the forests.

During the past year, several members of the division have participated actively in the direct forest fire fighting work. Personnel has served on fires as camp bosses, foremen, timekeepers, scouts, and in other capacities. During the absence of these men from their regular duty as interpreters, other personnel on the Interpretive staff have willingly doubled up on their work load to keep the overall program in operation for the benefit of the Park visitor.

Those members of the Interpretive Division who actively participated in the forest fire fighting program reported that they had fine co-operation from members of the Engineering Division, who were working as fire fighters, and from the Electrical Division, who were working on the communications. Those men who functioned as camp bosses reported fine help and co-operation from the Commissary personnel in providing supplies and provisions.

Religious Services and Chapel Use

The Yellowstone National Park Chapel was used each Sunday during January for the regular Sunday School services at 10:30 a.m. The chapel was also used for the Youth Fellowship meetings at 6:00 p.m. on the 17th and 24th. The evening church service, which was scheduled for the 24th, was cancelled. The Reverend A. A. Seehart was supposed to have conducted this service.

Interpretive Services

There were no services rendered in Yellowstone Park because Chief Park Naturalist gave talks while he was on assignment in the Regional Office. On January 11, he presented a talk to the Regional Office personnel on the large mammals of Yellowstone and on the 27th, he presented a talk to this same group on geysers, hot springs, and other water resources of Yellowstone. On January 26, at 7:00 p.m., he presented a talk to the Dundee school fifth and sixth grade groups and at this time he presented the Yellowstone film movie "Wild Animal Heaven" and gave the school children considerable information on the wild life resources of Yellowstone. There were 250 children at this program.

Each of the programs presented lasted a little more than one hour.

The 16mm motion picture "Wild Animal Harvest" was shown at Sequoia and Kings Canyon National Parks to a church men's group of 25 people on the 29th and to an audience of [illegible] at the Free Lodge on the 30th.

Museum Activities and Exhibits

Park Naturalist Elmore devoted a major part of this time during the month to the continued preparation of the plans for the revision of exhibits at Old Faithful Museum and five sets of these plans were submitted through the Regional Office to the Museum Branch in Washington. The exhibits for the plans sent in were:

1. What is a geyser,

2. Hot Areas of Yellowstone.

3. Getting the most from your visit.

4. Geyser Areas outside of the United States.

5. Borehole investigations.

While on assignment in Omaha, a conference was held on January 27, in Assistant Regional Director McLaughlin's office with Regional Historian Mattes, Regional Naturalist Swartzlow, Park Naturalist Jepson of Teton, and Chief Park Naturalist Condon present. The major point under discussion was the authenticity of the Colter stone, the Lewis and Clark stone, and the Cap Hunt stone. The Colter stone is on exhibit at Yacon's Jenny Lake Museum and the Cap Hunt stone is on exhibit at the Madison Museum, Yellowstone Park. The authenticity of the stones has been questioned by some historians and it was decided, after reviewing the matter thoroughly, that it would be desirable to remove these particular articles from public exhibit and retain them in accession storage pending further development with respect as to whether or not they are authentic or just hoax material. The Cap Hunt stone will be removed from the Madison Museum before the beginning of the 1954 travel season.

Chief Park Naturalist Condon prepared four suggested exhibit plans for exhibits which would illustrate phases of the wild life policy of the National Park Service. These plans for proposed exhibits were submitted to the Director's Office.

Personnel

Chief Park Naturalist Condon was on duty all month but spent the period from January 16 through January 30 detailed to the Region Two office in Omaha.

Park Naturalist Watson was on duty all month except for 34 hours of leave, most of which was taken the first three working days of January. Park Naturalist Elmore was on duty all month except for 16 hours of sick leave. Clerk-stenographer Mary Mohn was on duty all month.

New position descriptions were prepared for the positions of Chief Park Naturalist and Clerk-stenographer and these were submitted to the Personnel Office for inclusion in personnel papers which were being prepared. A proposal for the reclassification for the Chief Park Naturalist position was sent in from Yellowstone on January 29.

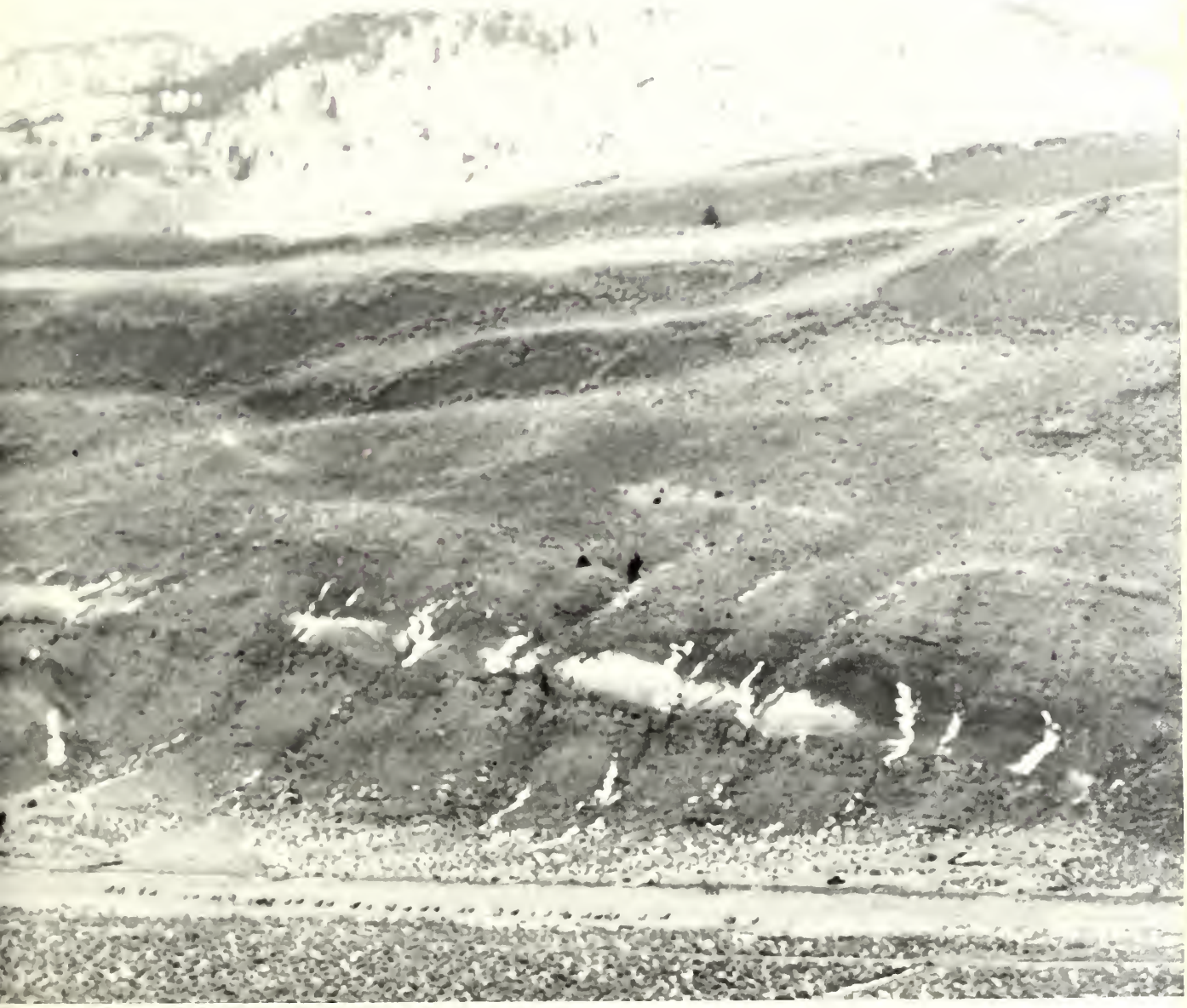
There have been a large number of letters received in Yellowstone from former seasonal Park Ranger Naturalists making inquiry concerning the possibility of securing employment for the 1954 season and also inquiring about the proposed Civil Service examination which is to be given for seasonal Park Rangers, Park Ranger Naturalists, and Park Ranger Historians. At least 20 former seasonal men have been given replies to their letters of inquiry.

Research and Observation

On January 11, Park Naturalists Watson, Elmore, and Condon went to the Stevens Creek area to observe the trapping of antelope as part of the management operations for that particular wild life form. It was planned to make still and motion pictures of this management operation but word was not received at the headquarters museum that the operation was underway and, after hearing about it through the grapevine channel, it was too late for the men to place themselves in advantageous positions to obtain any type of photographic record of these activities. It was an interesting operation to watch and much of the operation would have provided interesting motion pictures if the possibility had presented itself for photographers to have placed themselves where they would have been close enough for photographing the activities.

On January 14, Park Naturalist Watson accompanied the personnel who attempted to make an elk drive on Deckard's Flats and, at this time, obtained pictures of these operations and had the following to say about this day's experiences:

"Less success was witnessed just after dawn on the 14th when an operation involving the use of three weasels, two planes, and ten men on horses endeavored to move a herd of some 300 elk off Deckard's Flat. During early stages of the maneuver, which was



53 elk, immediately after being hazed out of Park by helicopter and plane, trying to make end run on airport north of Gardiner, Montana, around hunters massed along highway marking boundary of open hunting country. All were killed within minutes after starting up the steep rocky slope in the background. January 30, 1954. Photo by Watson.

conducted by planes and horsemen below and beyond our vantage point, the elk were rather successfully gathered together, and by the time I first saw them were well down into Bear Creek Canyon. Concerted efforts by planes and horsemen, and subsequently vehicles, were unsuccessful, however, in pushing them across this drainage. Though it appeared that something had spooked them at this point, I was unaware until afterwards that a State man on horseback working his way down into Bear Creek from the west side, most likely was responsible for their turning. The best efforts of men and machines were to no avail thereafter, and within 30 minutes the bulk of the herd, though now broken into two or more groups, was well on its way back into the Park. It is believed that approximately 60 head did go out of the reserve into open hunting country in the vicinity of Gilberts."

On January 26 and 29, Park Naturalist Elmore accompanied Biologist Kittams to observe management activities and on the 29th, watched the helicopter make an antelope drive which proved to be largely unsuccessful in that the antelope would go into the wing of the trap but would not go into the catching corral. After considerable effort they did manage to get 15 head in and capture them.

On January 30, Park Naturalist Watson watched and photographed a successful effort to push elk outside of Yellowstone Park by the use of the helicopter and an air plane. The helicopter moved the elk from the flats east of Steven's Creek, across the railroad tracks, across the Yellowstone River which is the Park boundary, then across the Gardiner airstrip and past a large concentration of automobiles and hunters and across Highway 89 into legal hunting territory in Montana. The fact that the helicopter was successful in forcing these animals past the several barriers listed indicates that it might have great potential value in moving bands of elk down country and also out of the Park. Mr. Watson, in his report for January, stated:

"On the 30th, Saturday, I was present to witness a helicopter, backed up by a small plane, drive 54 head of elk from the flats east of Steven Creek across the Yellowstone River, around the main bulk of hunters and cars assembled on the highway near the airport, and thence into open hunting country above the road where all were killed in a matter of minutes by a fusillade of rifle fire. It appeared to me that the same equipment under the same conditions might just as well have moved 500 as 50 elk."

The pictures which accompany this report show the equipment used and pictorially show the situation which was in force in the legal hunting area in Montana north of the Park at the time the elk were driven out of Yellowstone.

While in the Region Two Office at Omaha, Chief Park Naturalist Condon was fortunate enough to have Regional Historian Merrill Mattes and

Regional Archeologist Paul Beaubain review Wayne Deploule's manuscript on the "Great Mammoth Trail". A great deal of valuable and constructive criticism was given on the manuscript and it's contents and this aid should make it possible to complete a very fine publication.

At the same time, Mr. James Cole, Regional Biologist, reviewed the manuscript for publication "The Reptiles and Amphibians of Yellowstone which is being prepared by Frederick Turner.

Yellowstone Library and Museum Association

The Yellowstone Park Research Library was used during the month by members of the Yellowstone Park staff and by members of the North Dakota Fish and Game Department on their visit here.

There were a large number of periodicals received and the books and other library circulations were as follows:

Books received in January	4
Books in circulation	53
Books on indefinite loan	106
Magazines received in January	16
Pamphlets received in January	19

Natural History Association

Mrs. Alice Quist served as clerk for the Association during the month and spent 3[illegible] hours on duty. She completed the 1953 negative record and file and has begun the filing of 1953 prints in the photograph albums. Book sales for the Association for the month were $10.[illegible].

The Association, during the month, arranged to purchase the balance of the book stock on hand of the publication The Story of Man in Yellowstone by Dr. H. D. [illegible]cal. There were 1500 books involved in this purchase and they are expected to arrive in Yellowstone early in February.

On January 13, the committee appointed for studying the proposed revision of the Constitution and By-laws of the Association and the possibility of incorporating it under Montana laws met at Commissioner James Brown's office. The committee is composed of James Brown, Otto Brown and David de L. Condon. At the month's close, a draft of the proposed constitution and incorporation papers was being completed.

Photographic and Visual Aids

Park Naturalist Watson spent the major part of his time during the month of January on photographic and darkroom work and other work

associated with the visual aids program. Mr. Watson accomplished the following darkroom work:

Prints processed
4x5 425
8x10 12
8x14 7
Negatives developed
4x5 63
Film exposed
1 roll # 135
100 feet 16 mm motion picture film
4x5 negatives 63

There were 35 - 1954 negatives processed and filed.

Several large photographs were sent to Mr. John Jay, Superintendent of Theodore Roosevelt National Memorial Park. Eighteen Yellowstone negatives were sent on a loan basis to the Black Hills area in care of Mr. Robert F. Upton. There were 13 kodachrome slides sent on a loan basis to Utah State Agriculture College in care of William Sigler. These slides will be duplicated for inclusion in the college collection of wild life pictures.

Eighteen kodachrome slides, taken of the Hearst Lake fire which occurred during the summer of 1953, were obtained on loan from Seasonal Park Naturalist Wayne Replogle. These slides, along with others which we have, are being sent in for duplication so that we will have several good sets available for the presentation of talks on fire fighting and fire prevention.

A 16mm motion picture film was sent out on loan to Sequoia and Kings Canyon National Parks and to Seasonal Park Ranger Naturalist Merrold Asmussen at Sioux City, Iowa.

Proposed Outline of Work for February

1. We are going to work on additional museum exhibits for the Old Faithful Museum.

2. We are going to review and edit the Morris manuscript by Park Naturalist Watson.

3. We are going to finish the review and submit the manuscripts "The Great Yellowstone Trail" and "The Reptiles and Amphibians of Yellowstone".

4. Issue January-February Yellowstone Park Nature Notes.

"Hunting" without strain; elk killed within 200 yards of highway and dragged down by jeep. January 30, 1954. Photo by Watson.

5. Work on 16mm motion picture film.

6. Begin the organization of the 1954 season's interpretive plans.

7. Rework the Interpretive Development outline.

8. Routine work of the Division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Copy to: Region Two
Circulation (Region Two)
Original: Superintendent

Director
Museum ✓

In r y refer to: N-2615
9M2

MONTHLY REPORT OF THE NATURALIST DIVISION
FEBRUARY - 1954

General

The permanent personnel were on duty for the major part of the month and activities were devoted largely to routine interior work. Some field work was done by Park Naturalists Elmore and Watson.

Administration

Chief Park Naturalist directed the activities of the division for the month and returned to duty on February 1, from his assignment to the Regional Office in Omaha.

Special Activities and Conferences

Members of the Naturalist Division permanent personnel read with interest the report of the Secretary of the Interior's Committee recommending reorganization of the National Park Service.

The interpretive development outline, as reviewed and discussed in the Regional Office, was discussed with Acting Superintendent Hamilton on the 4th.

Mr. George W. Miller, Assistant Superintendent of Glacier National Park, was in the Chief Park Naturalist's office on the 4th and at that time was shown the Interpretive Division offices and headquarters museum.

During the month, Park Engineer Wohlbrandt has been having a lot of place name and information text signs cleaned and placed on concrete monuments. At the present time, it looks as though about 80 of these signs will be completed and ready for placement in the field as soon as weather conditions permit.

The regular Yellowstone Park staff meeting was attended on February 11 by Chief Park Naturalist Condon. Also on the 11th, Mr. Condon attended a meeting of the Management Improvement Committee. Also in attendance were E. R. L. Anderson, Otto Brown, Philip H. Wohlbrandt, and William Proper.

Mr. Frank Childs, Regional Forester, was in the Chief Park Naturalist's office and visited on the 17th. Park Naturalist Watson attended the Safety Committee meeting on February 4.

Chief Park Naturalist Condon spent considerable time reviewing thoroughly the division finances and outlining a program for the operations for the division for the balance of the fiscal year. There are only funds available for a curtailed program and it will require careful management of the program and funds to be able to provide reasonable interpretive services to the public through to June 30th.

Religious Services and Chapel Use

The regular Sunday School services were held each Sunday morning in the Yellowstone National Park School at 10:30. The Youth Fellowship met in the Chapel at 6:30 on the evening of the 21st. The Reverend Dean of Livingston, Montana, conducted interdenominational, protestant services on this same date in the Chapel at 7:30 p.m.

In-Service Training

Park Naturalists Watson and Condon and Clerk-stenographer Mary Bohn attended the In-service training meeting on bookkeeping and accounting procedures which was held in the Canteen building on the afternoon of the 17th.

The regular weekly newsletter was assembled and distributed by the Naturalist Division.

Interpretive Services

Chief Park Naturalist Condon presented a talk to the P.T.A. at Clyde Park, Montana, on the evening of the 15th at 8:30 and at that time discussed Yellowstone's large mammals. There were 115 persons in attendance. On the 16th, Mr. Condon presented a talk on Yellowstone Park to the Federated Women's Club at Livingston, Montana, and there were 30 women in attendance. This talk was presented at 6:00 p.m.

Mr. [illegible], of [illegible], Wyoming, brought to Yellowstone a German teacher, Mr. [illegible] Kalthegner, of Essen, Germany, on the 17th. Mr. Kalthegner was very anxious to see as much of Yellowstone as possible and Senator [illegible] requested he be given as much help as we could conveniently provide. These men were shown the headquarters museum and then the 16mm sound motion picture entitled "Geyserland" was shown to them so that they would have a better idea of what Yellowstone Park has to offer in the way of inspirational resources.

Two of Yellowstone's magnetic-type sound, 16mm motion pictures were loaned to Glacier National Park for their use in presenting programs in the vicinity of Glacier. The films loaned were: "Wild Animal Heaven"; and "Mudpots, Pools, Geysers of Mysterious Yellowstone." A report from Glacier on the use of these films for the month of February indicated they have been popularly received there.

Date	Organization	Attendance Animals	Attendance Geysers
2/13/54	Glacier County Sportsman's Assoc.	350	—
2/18	West Glacier Community	160	160
2/22	Columbia Falls Sportsman's Club	40	40
2/23	West Glacier Lions' Club	20	—
2/25	Columbia Falls Grade School	375	—
2/25	Columbia Falls Jr. Hi & Hi School	400	400
2/26	Whitefish Saddle Club	50	50
	Totals	1,395	640

Museum Activities and Exhibits

Two more exhibit case plans were completed and sent to the Director's Office during the month. These were: "What is Sinter?" and "Comparative Heights of Geysers." In addition to the completion of these plans, there were two accessions of museum artifacts with 26 items being catalogued.

All of the collection of study skins, herbarium specimens, and other perishables were given preservative treatment during the month.

Personnel

Park Naturalist Watson was on duty all month with the exception of 7 hours of annual leave. Park Naturalist Elmore was on duty all month. Clerk-stenographer Mary Bohn was on duty all month except for 12 hours of sick leave taken on the 15th and 16th. Chief Park Naturalist Condon was on duty all month except for one hour of annual leave taken on the 24th.

On the 14th, there were 40 letters sent to former Park Ranger Naturalists advising them of the announcement of the Civil Service examination for Park Ranger Naturalists and giving them some helpful information on when, how, and where to file their applications.

Research and Observation

An article prepared for publication in The Auk was received from Mr. James Caslick, seasonal Park Ranger, who was stationed at Lake last summer. This article dealt with a series of observations on the nesting habits and social behavior of sandhill crane in Hayden Valley. It was reviewed and returned to Mr. Caslick for release to the publishers.

Park Naturalist Elmore devoted the period from February 8 through the 15 collecting elk heads and other data on elk which were being killed by the Park Rangers as a management measure. Mr. Elmore's work was done as a co-operative gesture to help Biologist Kittams acquire data needed in his elk research. Mr. Kittams was absent from the region on assignment to Glacier. Mr. Elmore obtained the following

number of elk heads for Kittams and other data indicated:

Cows/calves	Bulls			Fetuses	
	Old	Spikes	Calves	Male	Female
73	17	6	4	16	22

Total of all elk examinated - 100

Park Naturalist Elmore spent two full days going through the herbarium specimens not yet filed in the herbarium cases and prepared a list of the new species which will be added to the herbarium when these plants are counted and placed in their proper folders. This listing ran to 163 different species and five different families.

Mr. Tom McHugh, who has been three years conducting a research study on the social behavior of bison in the wild as well as in captivity, was in the Chief Park Naturalist's office on the 12th and 13th. At that time, Chief Park Naturalist Condon spent two days going over Mr. McHugh's thesis, which he is submitting for an advanced degree, and making suggestions for some changes in its content. When Mr. McHugh was here, he was loaned pamphlets from the library. These were returned at month's end.

Word was received in Yellowstone during the month that we had lost title to the coldest spot in the United States; a record which has been held since February 9, 1933, when a -66 degrees below zero was recorded at the Riverside Ranger Station near West Yellowstone, Montana. The weather Bureau has reported that on January 20, at Rogers Pass, Montana, a -69 degrees below zero was recorded.

Park Naturalist V. Verde Watson spent a good part of his work time during the month continuing his research on the Norris Geyser Basin surveying thermal phenomena and writing a detailed description of that geyser basin. He has thoroughly described 67 features and prepared a complete map in rough form of the geyser basin.

Library

Mr. James M. Cole, Regional Biologist, Region II, gave five issues of North American Fauna to the library. In addition to these, the Yellowstone Library and Museum Association purchased a number of new books for addition to the stacks. Among the more interesting of these were:

The Journals of Lewis and Clark by De Voto
A Herd of Mule Deer by Linsdale and Tomich
Jedediah Smith by Morgan
History of the Expedition of Lewis and Clark by Allen & R'Vichar

Books received in February	9
Books in circulation	49
Books on indefinite loan	114
Magazines received in February	23
Pamphlets received in February	55

Natural History Association

Mrs. Alice Quist continued to be employed as clerk of the Association and she worked 44 hours during the month. Her time was devoted to inventorying book sales stock and handling mail sales business. She also spent considerable time working on the negative record and filed photographic prints in the album file.

The Association purchased from Caxton Printers the last 1500 copies of the book "The Story of Man In Yellowstone by Dr. Merrill D. Beal. These were purchased at a total cost of $2922.00 to the Association and will be sold at the information desks at the price of $3.00 instead of $5.00 as they have been in the past.

The Association sent a new copy of the Haynes Guide book as a complimentary gift to the Region II library in Omaha. They purchased 30 reams of special-cut paper for use in the publication of Nature Notes. On February 24, an order was placed with Graybar Electric Company of Butte, Montana, for three portapage public address units which will be used this coming season at Canyon and Old Faithful by naturalists conducting large parties.

Commissioner James E. Brown, as Chairman of the committee appointed to prepare Articles of Incorporation and a new Constitution and By-laws for the Yellowstone Library and Museum Association, has completed these in rough draft form. By month's close, this material had been reviewed by Mr. Hamilton, Mr. Watson, Mr. Elmore, Mr. Brown, and the Executive Secretary. It is expected that it will be presented to the Board of Directors some time in March for their review and concurrence if such is their wish.

The multilith of the Association stripped a gear while in use early in February and new parts were purchased and the machine placed in good working condition.

Equipment and Supplies

On February 9, the Interpretive Division loaned to Glacier National Park one of its Model 202 Bell and Howell magnetic stripe projectors and two reels of 16mm colored motion pictures with magnetic sound track on them. It is expected that they will be returned to Yellowstone by about mid-March.

Photographic and Visual Aids

Twelve 4x5 black and white negatives were loaned to Mr. Tom McHugh. These were pictures taken of bison in the wild on Yellowstone ranges and he plans to use some of these as illustrations in his thesis.

Park Naturalist Watson has devoted considerable time to darkroom and photographic work and, at the month's end, is working on a project to supply pictures of Rangers at work for use in illustrating

articles or books which refer to this subject. A set of some 30 8x10 glossy prints of Yellowstone Park's vandalism problems, protection construction needs were sent to Dr. Jesse Jennings on the 25th. Dr. Jennings is a professor at the University of Utah and plans to present a television broadcast on March 7, using these pictures to illustrate points in his talk.

Proposed Outline of Work For March

1. Complete and distribute the March-April issue of Yellowstone Park Nature Notes.

2. Finish the exhibit plans for revision of Old Faithful Museum.

3. Work on plans for the summer interpretive program.

4. Complete the editing of the manuscript on Norris Geyser Basin, The Great Bannock Trail and The Reptiles and Amphibians of Yellowstone.

5. Carry on the routine work of the division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Copy to: Region Two
Circulation (Region Two)
Director
Museum ✓
Original: Superintendent

REPORT 9M2

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
MARCH - 1954

General

The Naturalist Division activities involved mostly office and museum work. Park Naturalists Condon and Watson were able to make field trips to Norris and to the Lamar Valley area. Plans were made during the month for the selection of seasonal personnel and the summer program.

Administration

The activities of the division were directed by Chief Park Naturalist Condon and members of the permanent staff were on duty for the greater part of the month.

Special Activities and Conferences

Park Naturalist Watson attended the regular safety meeting on March 3. The Chief Park Naturalist spent considerable time during the month reviewing manuscript materials sent over by Jack Haynes on the new book he is planning to publish called The Yellowstone Story. The manuscript, as it has been reviewed, was returned to Mr. Haynes.

On the 16th a special meeting was attended by the Chief Park Naturalist in the Superintendent's office to review fisheries problems with the Assistant Superintendent, Chief Ranger, and Superintendent. The regular staff meeting, which was held in the conference room on the 18th, was attended by the Chief Park Naturalist. Mr. Condon attended a sign committee meeting in the conference room on the afternoon of the 19th. To date there have been over 180 place names, directional and informational signs placed on concrete bases by the Engineering Division. These signs will be placed in the field as soon as possible and are going to be a worthwhile installation.

On the 24th, the Chief Park Naturalist attended a conference in the Superintendent's office which was held with Mr. Seth King, Midwest Correspondent for the New York Times, and Don Huff, Secretary of the Missouri Basin Inter-Agency Committee. On the 25th, Mr. Condon accompanied King and Huff on a trip over the Mammoth Hot Spring Terraces and ran off motion pictures for them.

A magnetic tape, which runs about 20 minutes, was prepared for Superintendent Hamberger of Mount Rushmore National Memorial. The tape included commentary by the following old-time Yellowstone employees: William Wiggins, Herman Biastoch, John Hauman, Robert Robinson, Rudy Grimm, William Wright, and Joseph Joffe.

Religious Services and Chapel Use

The Yellowstone National Park Chapel was used each Sunday for the regular Sunday School services at 10:30 a.m. On March 14 and 21 the Chapel was used for the Youth Fellowship services at 6:00 p.m. On the 21st, church services were held in the Chapel at 7:30 p.m. conducted by Reverend Clarke of the Livingston Ministerial Association.

On the afternoon of Sunday, March 21st, the Reverend E. A. Syms baptized Paul Craig Murray, son of Mr. and Mrs. Lawrence Murray.

On March 2, the Yellowstone Park Church Committee received a check from Mr. Ben Arnold in the amount of $448.75 to finance the installation of a religious services bulletin board at the Yellowstone Park Chapel. The Church Committee, on March 8, held a meeting and an order was placed with the W. L. Clark Company for the bulletin board.

In-Service Training

Park Naturalists Elmore and Watson attended the two hour training session on fiscal problems which was held in the canteen on March 16. The division assembled and distributed the mimeographed Yellowstone Park News Letter.

Interpretive Services

The kodaslides, which were on loan to Dr. C. Max Bauer, were returned on March 2 and the 16mm motion picture Geyserland was returned on the 3rd. Dr. Bauer presented programs in Orlando, Florida, to 300 people. On March 4, Miss Cristel Toew of Frankfurt, Germany, who has been in the United States on an exchange teacher program, was in the Headquarters Museum and was shown the motion picture Geyserland so that she would have a better concept of Yellowstone.

On the afternoon of the 4th, Chief Park Naturalist Condon accompanied Assistant Superintendent Hamilton and Mr. Earl Nelson, a Universal News Service Photographer, on a trip to Soda Butte and return. On the 5th and 6th, Mr. Condon spent the day with Mr. Nelson helping him obtain pictures of the hot spring terraces, bison, elk, and Yellowstone landscape. On the 6th, a trip was made to Tower Fall with Mr. Nelson and Mr. Hamilton. At that time pictures were made of Tower Fall, the Canyon of Yellowstone, and a number of landscape shots. Mr. Nelson was preparing a picture for a Universal short release in color on Yellowstone in the winter.

Glacier National Park used the Yellowstone movies during March and ran the [illegible] Animal Heaven picture to audiences totalling 275 people and the film Geyser, Mud Pots, and Hot Springs of Mysterious Yellowstone to audiences totalling 250 people.

Glacier [illegible] presented Bill's Animal Heaven in Santa Rosa, California, to an audience totalling 1500 people. Robert Jones used the same movie in [illegible], Ohio, with an audience of 250 people. Chief Park Naturalist [illegible] returned to Billings, Montana, on March 30, to present a program on Yellowstone National Park to the Billings Rotary Club. There were [illegible] 150 in attendance.

On the [illegible] of the month, Mr. [illegible] and Mr. [illegible] were shown the movies Mysterious Geysers, Mud Pots, and Hot Springs of Mysterious Yellowstone and Glen Cameron, which is the trip around the Park.

Museum Activities and Exhibits

Park Naturalist Moore spent considerable time during the month working on exhibits. Plans for the LeTourneau Museum and the Museum of the exhibits [illegible] Commissioner of Indian Affairs were sent to the Regional Director's office. Plans for the remodeling of the Old Faithful Museum preliminary work were completed and the engineers estimated it would involve an expenditure of about $1000 to remodel the room in conformance with the plans. On the 27th of the month, Park Naturalist Moore placed in the museum [illegible] dozen boxes of native fluorite-stained calcite in an attempt to [illegible] silverfish which have been discovered in the basement. Mr. [illegible] spent a great deal of time [illegible] herbarium and supervising the work of Mrs. Moore. Mr. Moore [illegible] 350 sheets of plants into the herbarium collection and arranged it [illegible] covers. This work was in [illegible] to that work of Mrs. Moore who is an employee of the Yellowstone Nature and Museum Association.

On March 5, carpenters [illegible] Boston and [illegible] Roland began the installation of the rubber tile flooring in the Mammoth Museum. This job was completed on the [illegible] and will facilitate their maintenance. Mr. Moore helped Blake put on a number of [illegible] and [illegible] museum exhibits.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Moore was on duty all month except for two days sick leave taken on the 23rd and 24th. Park Naturalist Watson was on duty all so he spent for ten hours annual leave; one hour on the 8th, eight hours on the 12th, and one hour on the 24th. Clerk-stenographer Mary Rohn was on duty all month except for 8 hours of annual leave [illegible] on the [illegible] and 3½ hours of leave without pay. Mrs. Rohn expects to return to duty on April 5.

A register of 48 names was supplied by the Civil Service Commission Region Two Office from which we are to select seasonal Park Ranger Naturalists. This register was received on March 31 and included the names of 23 of the former seasonal Park Ranger Naturalists. Ten names which were expected on the list did not appear and it is expected declination on the part of some of the 48 names supplied us will make it possible to still obtain the services of some of these ten.

Research and Observation

Park Naturalist Elmore spent a little more than one day's time on historical research, reviewing the Superintendent's annual reports and other records to determine the horse population of Yellowstone during the stagecoach period. Mr. Elmore helped Walter Kittams pull the jawbones from elk on the 6th.

Park Naturalist Watson devoted a great deal of time to furthering the research work on Norris Geyser Basin and on the completion of a map of that area. Excellent cooperation was received from the Engineering Division in the preparation of the drawing of the map which has been made by Mr. Watson. This work was done by Engineer Melvin Thuring. At the close of the month a few minor changes on this map will have it completed. Mr. Watson spent considerable time on the manuscript he is preparing on the Norris Geyser Basin and on the 30th he accompanied Rangers Robert Murphy and Ted Hackett to Norris where they ran a snow course measurement while Mr. Watson made observations of features in the Norris Geyser Basin and checked final details of his map and also his description of physical characteristics of some of the pools and geysers. Mr. Watson has selected several names to be given to features in the basin which in the past have been unnamed.

Chief Park Naturalist Condon made a trip to the Norris Geyser Basin on March 1 with District Rangers Rudy Grimm and Tom Ela. At this time they measured the snow course and Condon obtained 60 4x5 pictures of ranger activities showing them skiing, operating a "weasel" over the snow, measuring the snow course, and activities around a typical patrol cabin. Trips were made over the terraces by Chief Park Naturalist Condon on March 5 and 25. The Highland Spring is no where near as active now as it was in October. The Cupid Spring is active on both sides of the road. The Canary Spring is very active on the south side of Main Terrace. The Blue Spring has shifted its activities to the large pool on the northwest side of Main Terrace. The Jupiter Spring is still very active and flowing down over the front of the Terraces as well as into a huge pit near the Main Terrace. The Minerva Spring is exceedingly active and outstanding in its deposition and beauty. The Cleopatra Spring has increased its activity greatly and is the most active it has been in the past ten years. The Palette Spring is entirely dormant and Opal Spring is still active. There was very little snow on the Terraces and across the top of Highland Terrace there was an area where the ground was heated along a fissure and no snow was present at all.

Articles were prepared for Yellowstone Nature Notes by Park Naturalists Watson, Elmore, and Condon. Watson's article "Cold Water Geyser", Elmore's articles was a review of historical letters donated to the Yellowstone Museum and also an article on plant communities. Condon's articles were "The Red Fox and the Bird Feeder Station" and "Treasures from McCartney Cave".

Library

Mr. Rogers donated to the library The Book of the National Parks by Robert S. Yard. In addition to these, the Yellowstone Library and Museum Association purchased a number of new books for addition to the library. Among these recent acquisitions are:

The Fifth Essence by Tilden
The Great West by Hayden (1880)
Ways of Mammals by Moore
Westward the Briton by Athearn

Subscriptions were also renewed for a number of magazines. The following is a statement of the books, pamphlets and magazines received, in circulation, and on indefinite loan:

Books received in February	14
Books in circulation	49
Books on indefinite loan	106
Magazines received	11
Pamphlets received	60

Natural History Association

Mrs. Francis M. Elmore was employed by the Association to mount plants for the herbarium on herbarium sheets and to otherwise bring the herbarium records up to date. Mrs. Elmore began her employment March 4 and finished her work on the 30th. She mounted 923 herbarium sheets, typed 600 labels and 600 scientific index cards, and prepared new covers for 170 new species of plants which were added to the herbarium. The number of 170 species is an imposing addition of entirely new specimens to our collection. The Association paid Mrs. Elmore $154.72 from which withholding tax was held.

The multiliths of the Association were used in running off the January-February issue of Nature Notes on March 12 and 379 copies were placed in the mail on this date. In addition to the Nature Notes, 18,000 masthead were run off for use in the issuance of the Yellowstone Park Weekly News Letter. These were run off on the 10th and 11th.

Mrs. Alice Quist was employed for 75 hours of work during the month and during this time she prepared and sent out orders for the summer

sales stock of publications. She mounted the 1953 prints in the photo albums and filed the negatives and made the negative records for the balance of 1953 and 1954 up to date. Mrs. Gist also spent considerable time working on the Kodachrome collection.

The association sent out 220 slides to Weston for duplication so that additional slides will be available for the use of naturalists during the season in connection with interpretive programs. It is expected that 1,000 copies will be made of the slides sent to Weston.

Copies of the proposal for the Articles of Incorporation and a new constitution and by-laws of the Association were sent out on March 9 to all members and it is anticipated that a meeting will be held early in April at which time the Association will become incorporated.

Mr. Grace Heplogle's manuscript on the Bannock Indian Trail, which the association plans to publish in booklet form as one of the Yellowstone Interpretive series, was returned to Mr. Heplogle on the 18th for editing and revision.

The total sales of the Association for the month of March were $14.23.

The Association purchased from Graybar Electric Company three Portapage public address units and these arrived on the 23rd at a total cost of $[illegible].31 to the Association.

Equipment and Supplies

Part of the stationery supplies for the division were received during the month. Supplies were also purchased for the multilith and addressograph. These are now in stock.

The large Bell and Howell model [illegible] magnetic sound reproduction picture projector which was on loan to Glacier National Park, was returned to Yellowstone on March 23 and along with it the two reels of movies which have been using.

Photographic and Visual Aids

Park Naturalist Watson spent the better part of [illegible] days time on photographic work, either associated with dark room activities or binding, filing or classifying of Kodaslides. Many hours of time were spent checking the photo files to select pictures to send to the Director's office which could portray Ranger activities. Watson exposed 40 4x5 negatives of Ranger activities associated with trapping and otherwise handling elk. Watson exposed 60 4x5 negatives of Ranger activities consisting of measuring the snow course, operating a "weasel", skiing,

and general activities in and around a patrol cabin. A request was filled for pictures portraying bears and their depradation. A set of pictures was sent on vandalism and 100 8x10 enlargements were sent to the Director's office on the 15th which were intended to show Ranger activities.

A large set of pictures, which were on loan to Dr. Jennings of the University of Utah for use on television, were returned during the month by Dr. Jennings. He reports the programs were very well received and considerable comment was made by his audience indicating they were duly impressed with the abuse which Yellowstone's resources are receiving.

The 16mm motion pictures were loaned during the month. Two reels were sent to Glacier National Park, the reel Wild Animal Heaven was sent to C. [illegible] at Santa Rosa, California, and a copy of this same film was sent to Robert Jonas of Moscow, Idaho. Both of these films were returned by the month's close.

A set of 1[illegible] slides was sent Dr. P. G. Worcester of the University of Colorado for his use in presenting a series of programs on the geological phenomena in the National Parks. These were sent out on the 17th.

Correspondence was carried on with several film processing laboratories making inquiry concerning the costs for reducing 35mm black and white film to 16mm size. Replies have been received from some of these laboratories and it is anticipated the Yellowstone Library and Museum Association will probably sponsor a program of transposing the large collection of 35mm film which is of historical significance to 16mm size so that we can not only more safely store it but also use it. A set of [illegible] 8x10 glossy black and white pictures was given to Mr. Seth King to illustrate his New York Times material.

Darkroom Work

Film Developed
100 [illegible]
1 reel of [illegible]16
Prints made
[illegible]x10 - 146 prints of National Park Service activities.
[illegible]x10 - 40 prints of bear problems.
[illegible]x10 - [illegible] of the Lower Falls.

Proposed Outline of Work for April

1. Selection of personnel for the 1954 season.

2. The outlining of a program of interpretive activities for 1954.

3. Preparation of a plan for operating of all activities for 1954.

4. [illegible] Nature Notes.

5. [illegible] of Blides for issuance to the field.

6. [illegible] of duplicates to be returned from Neston.

7. Work at the Old Faithful Museum preparatory to revision program [illegible] is hoped will be completed early this season.

8. [illegible] of some of the placename and informational [illegible] as is possible.

9. [illegible] the interpretive development outline.

10. [illegible] of the Division.

Respectfully submitted,

David de L. [illegible]
Chief Park Naturalist

Original - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
APRIL - 1954

General

The month was in general cold and stormy with a few bright days occurring between the 9th and the 15th. The division's activities were largely confined to work in the headquarters museum. There were field trips made to Old Faithful and Lake with Park Naturalists Elmore and Watson participating with Chief Park Naturalist Condon and observations were made on changes which occurred in the thermal areas during the past winter.

Administration

The division's activities were directed by the Chief Park Naturalist during the month.

Special Activities and Conferences

A series of memoranda were prepared for the Superintendent outlining work that needs to be done on amphitheaters, museums, naturalist quarters, informational and place name signs, power supplies and communications.

The regular staff meeting of the Park was attended in the Superintendent's office at 10:00 a.m. on the 14th. At this time some pictures were taken of a meritorious award being given to Mr. Jim Epperson. Dr. Merrill D. Beal of Idaho State College visited the Park headquarters museum arriving on the evening of the 14th and remaining through the 16th.

Religious Services and Chapel Use

The regular Sunday School services were held in the Yellowstone National Park Chapel at 10:30 each Sunday morning during the month. The Youth Fellowship organization met in the Chapel at 6:00 p.m. on the 25th.

A well-attended Easter candle light service was held in the Yellowstone National Park Chapel at 6: 00 a.m. Easter Sunday, April 18. Reverend G. M. Walker preached the sermon. Music was supplied by the Mammoth Youth Choir and the combined Gardiner-Mammoth Adult Choir. Although the weather was stormy there was an exceptionally large congregation in attendance.

In-Service Training

Park Naturalist Watson ran through a set of Kodaslides, which we intend to use for interpreting the forest fire to the public, for the benefit of the group who were in attendance at the fire conference held here April 27 through 29.

The regular weekly newsletter was assembled and distributed by the division.

Interpretive Services

Park Naturalist Watson presented a program to the Gardiner High School science class on the geological history of Yellowstone National Park. There were fifteen students in attendance and two teachers. On the 30th Park Naturalist Watson presented a similar talk to the Scouts and parents in Gardiner with 24 persons present.

A special talk was given by Mr. Condon to a group of nine wildlife students and instructors from Idaho State College at Pocatello, Idaho. Dr. Van Pulling was in charge of this group.

A new statement concerning Old Faithful was prepared and multilithed on the 21st. One thousand copies of this were made for distribution to persons making specific inquiry concerning Old Faithful Geyser.

Dr. Nils Paul Larson of Honolulu, Hawaii, was taken on a trip to Old Faithful and return on the 23rd. Dr. Larson made pictures of phenomena and was given as much information as possible on Yellowstone since he plans to use it as program material in Honolulu.

Museum Activities and Exhibits

Park Naturalist Elmore integrated an additional 600 specimens into the herbarium during April. This makes a total of about 950 new sheets which have been added this spring. He also brought the index files up to date for the herbarium and prepared a number of genus covers for plant groups. Mr. Elmore spent a great deal of time during April working on plans for museum exhibits for the Old Faithful Museum. He did a great deal of research and study in the library on historical material in planning for an exhibit portraying Yellowstone's firsts. There was some museum cataloging and accessioning during the month.

A set of rock specimens representative of Yellowstone rocks was sent to Mr. Ted Tapper of Chicago, Illinois, for use in preparing exhibits for a high school museum which is being developed.

Old Faithful, Madison, and Norris Museums were inspected and found to be in good condition.

Personnel

Park Naturalist [illegible]more was on duty all month except for one day's annual leave taken on the 20th. Park Naturalist [illegible]atson was on duty all month except for 18 hours of annual leave. Clerk-stenographer Mary Mohn was on duty all month except for 16 hours of leave-without-pay and four hours of sick leave taken on the 20th. Chief Park Naturalist Condon was on duty all month except for one hour annual leave taken on the 15th.

Efficiency ratings on permanent personnel were prepared and submitted on April 1.

Considerable trouble was encountered in an attempt to select experienced Yellowstone personnel from the Civil Service Register supplied us. Several of the old-time employees were considerably disturbed and worried about their chances for re-employment and long distance telephone calls were received from Wayne Replogle, Charles Gebler, and Alma Teuscher, concerning their possibilities for employment. A telegram was received from Thad Stevens and a number of letters were received from other persons. At the month's close we have still been unable to reach experienced men such as Gebler, Teuscher, Clark and Stevens. We were able to reach 23 experienced men's names and these men were advised on the 20th of their selection for employment. These men are as follows:

Simon [illegible]
Walter [illegible]. Merriman
Frank [illegible]. [illegible]
Arthur Nash
Herrold [illegible]
Ray J. Davis
William [illegible]. Fischer
Kenneth Armitage
Ted Parkinson
Willis [illegible]
Frank [illegible]
Frederick Turner
Wallace M. Good
Wallace Hennessy
Robert Jones
Joseph Murphy
Joseph [illegible]
Samuel M. Neal
Lowell G. Biddulph
George D. [illegible]
Herbert T. Lystrup
Wayne F. Replogle
Clarence C. Allemen

Of this group of [illegible] fifteen have accepted appointments by the month's end and have returned their physical examination forms.

Commitments were made during April to employ Ted Davis, Howard Biddulph, and Burton Anderson as janitors for the 1954 season.

Former Park Ranger Naturalist George D. Marler was in the Chief Park Naturalist's office on April 30.

Research and Observation

Mr. Charles Gebler, former Park Ranger Naturalist and prospective employee for the 1954 season, submitted an outline for a proposed study on nature trail guiding which he plans to make as part of the qualifications for his masters degree. This study outline was reviewed by members of the Naturalist staff and a letter outlining our suggestions on its improvement was sent to Mr. Gebler.

Park Naturalist Elmore devoted a lot of time to historical research for the preparation of museum exhibits and Park Naturalist Watson spent a good deal of time on library research with respect to the Norris Geyser Basin reviewing published information on the activities as recorded for that thermal area. He also spent considerable time working on final details of a map of this area and stippled in the forested area which tongued out into the geyser basin.

On April 18, Park Naturalists Watson and Elmore observed three grizzly bears in the north end of Elk Park. These animals were searching for food and otherwise enjoying the bright spring day. Park Naturalist Elmore made some interesting observations on raven action on two different occasions and his comments concerning these were:

". . .During this time a raven lit in the vicinity of the grizzlies, seemingly with the avowed purpose of enticing the grizzlies. The raven would alight within a few feet of the grizzlies and one or two of the grizzlies would start for him, whereupon the raven would hop or fly a few feet, and the grizzlies would again start for the raven, the raven keeping just enough distance to keep the bears on the run. Later when the grizzlies moved back into the trees several ravens were seen perched in a lodgepole pine directly above the grizzlies.

"As a sidelight to the grizzlies and raven, a week previously a raven was seen doing exactly the same type of enticing to a coyote. The coyote was at quite a distance from the road and digging in the snow while a raven stood close to him raucously egging him on. The coyote started for him time and again and the raven just kept out of reach. The coyote was pulled farther and farther away from his diggings until he evidently gave up in disgust and trotted off. Later the ravens were seen in and around the hole dug by the coyote. It seems logical that the remains of some animal carcass was buried beneath the snow."

On April 25, Park Naturalist Elmore visited the Upper Geyser Basin and at that time observed several of the major geysers in eruption and found that the Giant Geyser was in a hot phase but during his time there it did not erupt. He did observe hot periods occuring at 1:10 p.m., 2:00 p.m., and 3:00 p.m.

The osprey were reported back at the Eagle's Nest Rock in Gardner Canyon on April 4 and during the month were busily engaged repairing the nest and getting about with their nesting.

The possibilities of setting up a research program on the hydrothermal phenomena of the geyser basin along the Firehole River is being explored [illegible] a program can be justified which will be supported by private foundation funds. The Yellowstone Library and Museum Association is interested in acting as sponsor of such a research project and Mr. George H. Butler was in on April 30 to discuss the possibility of his participating with this research work.

Some information was sent to Dr. Georgi of the University of Nebraska on the hot waters of Yellowstone.

Further reading was made of a manuscript being prepared by Mr. Jack E. Haynes and this material was returned to him.

Blackbirds, bluebirds, meadow larks, western robins were all observed around the Mammoth area about April 8.

Specimens from the Norris Geyser Basin were sent to the Chemistry Department of Brigham Young University in hopes they would make an analysis of these for us. No word has been received by Norris's end as to whether or not this work can or is being done by this institution.

One adult robin was banded on April 21. The band number was 40-401. This robin had crashed into a car window of an automobile near the museum and after a short while seemed to be fully recovered from the accident and was released.

On a trip made to Old Faithful on the 23rd, a number of interesting observations were made. Two pair of sandhill crane were seen; one near the south end of South Twin Lake and the other pair in the meadow in front of the Norris Ranger Station. Sandhill cranes were heard in the Black Sand Basin area but not seen. A pair of trumpeter swan were seen on the Madison River about a mile and one half below Madison Junction. In the meadow immediately below Madison Junction, more than 75 elk were seen. Two moose were seen near the Junction of Obsidian Creek and the Gardner River. In the Lower Geyser Basin two bunches of bison cows and calves were observed. These animals were very poor in general and some of the young ones were

barely able to keep up with the slow-moving herds. There were several old bulls scattered up and down the Firehole River and some were seen as far up the Gibbon River as about two and one half miles above Madison Junction.

Old Faithful was observed in eruption twice and both eruptions seen were not of the type which usually occurs since in both instances there was very little if any preliminary warning before the full eruption was in effect. The Giant Geyser was in a very dormant state having apparently erupted only the night before. Castle Geyser was seen in eruption at about 1:00 p.m. and Riverside Geyser was in eruption at about 1:30 p.m. The Morning Glory Pool was encircled by a dense algal growth and one long streamer of colored growth extended down deep into the bowl on the south side. There was a lot of yellow Mimulus in bloom in the geyser basins. The hibernating den near Gem Pool was investigated and a great deal of dirt had been excavated from the mouth of the den and in the den entryway there was considerable standing water. There was no evidence of bear around there although it was found to be occupied in mid-December.

On the 18th and again on the 25th trips were made over range lands north of the Park which are Forest Service lands and privately owned livestock range by Chief Park Naturalist Condon for his personal enlightenment. These range lands provided a marked contrast to the north Yellowstone range within the National Park boundary. Forage and general vegetation cover was exceptionally good on the Forest Service range lands and good on the privately stocked ranges in contrast to the virtually barren condition of the countryside from Reese Creek to Mammoth around the slopes of Sepulcher Mountain and around the slopes of Mount Everts. Any one interested in receiving a shock with respect to vegetation need only walk over some of this countryside.

On the 26th, Park Naturalists Elmore and Condon visited the Mud Volcano area for the purpose of determining what changes had occurred in this thermal area and especially to make observations of the Black Dragons Caldron. It was found that the Black Dragons Caldon is violently active along a fissure bearing 32° east of south and having a total active length of 109 feet. The temperature of this seething mass of mud was 191° F. A smaller fissure was active on the north side of the crater. This fissure had a bearing of 42° east of north. Its temperature was only 162° F. The original crater of activity as it was discovered in the spring of 1948 had a width of 45feet, a length of 68 feet, and a depth of 7 feet 11 inches and followed the long axis on the fissure bearing 42° east of north. The present length of the crater along this bearing is now 142 feet. The extent of the crater along the fissure alignment bearing 32° east of south is also 142 feet. The width of this crater at its widest point is 77 feet and its depth from rim to boiling mud surface is 18 feet 5 inches.

A series of temperatures were recorded for other thermal features in that general area and these temperatures are as follows:

Dragons Mouth	192° F.
Mud Volcano	200° F.
Mud Geyser	136° F.
Sulphur Caldron	184° F.
Large mud cone below Sulphur Caldron	146° F.
Large turbulent pool near Black Dragons Caldron	142° F.
Large mud pit up ravine behind the Mud Volcano	194° F.

Library

The Yellowstone Library and Museum Association purchased four books and some other items for the library. Two of these were Yellowstone Through the Stereoscope and Yellowstone and Alaska.

The following is a statement of the books, pamphlets and magazines received, in circulation, and on indefinite loan:

Books received in April	4
Books in circulation	47
Books on indefinite loan	107
Magazines received in April	20
Pamphlets received in April	50

Natural History Association

Park Naturalist Elmore spent two day's time making grammatical corrections of the printed copy of "Wild Animals of Yellowstone" by Brodrick. Other revisions were made in the text of this publication and it was sent to Edwards Brothers for reprinting in the revised form. It is planned to have a minimum of five thousand copies of this edition run off.

The March-April issue of Yellowstone Nature Notes was prepared, multilithed, and mailed by the 20th. There were 387 copies placed in the mails.

Mrs. Alice Quist was employed as clerk of the Association and worked 62½ hours and devoted her time to arranging the book stock, working on the photo albums and the Kodaslide collection. The Association received during the month a large portion of its publications sales stock. From the Association's book stock, publications were sold to Haynes, Inc. for their sales stock.

Dr. Merrill D. Beal spent more than two days autographing about 750 copies of his book Story of Man in Yellowstone of which the Association now has the entire stock.

The Association has negotiated to rehire Mrs. Lucille Wagner as Librarian for the 1954 season and it is anticipated that she will report for duty before mid-June. The Association is still working with Mrs. George Baggley and Dr. W. B. McDougall on the manuscript of a new book on plants of Yellowstone.

There was a special meeting of the Board of Directors held in the Chief Park Naturalist's office at 3 p.m. on the 21st. Members present were:

James W. Brown, Chairman
David de L. Condon, Executive Secretary
Alice Quist, Treasurer
Jack T. Haynes, Member
Edmund B. Rogers, Member
Joseph Joffe, Member
W. Verde Matson, Member
Otto M. Brown, Member
Francis M. Elmore, Member
William Proper, Member

The matter of the proposal to incorporate the Association and revise the Constitution and By-laws was reviewed at some length and after considerable discussion a motion was made to table the proposal until further exploration of the values to be gained by such action was made and the meeting adjourned at 5:00 p.m.

Equipment and Supplies

Twenty-five aluminum-covered storage file boxes were received from the Museum Laboratory in Washington, D. C., and these have been put to use in the storage of valuable historical items.

Photographic and Visual Aids

One roll of K-135 film, one roll of 16mm movie film, and 40 4x5 black and white negatives were exposed during the month. Several sets of 8x10 glossy prints were sent out during the month and these covered such subjects as vandalism, general scenic shots, and personnel training. Seventeen Kodaslides on loan to the Utah State Agriculture College for duplication were returned by Professor Sigler. Also returned were 130 Kodaslides loaned to Dr. Worcester at Colorado University and a set of 30 Kodaslides were loaned to John Macbeth of Idaho Falls, Idaho. Seventeen hundred duplicates of slides sent for duplication to Keston were returned late in the month. Work is progressing on the sorting

and distribution of these slides. Special fire sets were made and some of these will be distributed to Glacier National Park and individuals at their cost to the Yellowstone Library and Museum Association.

Proposed Outline of Work for May

1. Open the Mammoth Museum.

2. Open the wayside exhibits.

3. Repair the Obsidian Cliff exhibit.

4. Get all Kodaslide sets ready for further distribution.

5. Remove the "Cap" Hunt stone from exhibit at Madison Museum.

6. Prepare May-June issue of Yellowstone Park Nature Notes.

7. Work on 16mm motion picture editing.

8. Complete the review of the interpretive development outline.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Original to - Superintendent
Copy to: Region Two
Circulation (Region Two)
Director
Museum

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
May - 1954

General

Some trips were made in the park for the purpose of checking on field stations and exhibits and to remove shutters from the wayside exhibits. On these field trips observations were made of natural phenomena in the course of travel between stations. A great deal of time during the month was devoted to readying the Mammoth Museum for public use. The process of trying to line up a seasonal staff of Park Ranger Naturalist was continued. Weather during the month was erratic and in spite of storms there were lots of people in the area.

Administration

The division's activities were directed by the Chief Park Naturalist.

Special Activities and Conferences

Engineer Phil Wehrbrandt, Foreman Elmer Armstrong, and the Chief Park Naturalist spent part of May 3 on the Hot Spring Terraces laying out the location for a new alinement of the wooden walks and for the installation of asphalt walks. It was determined to tear out certain sections of bituminous walks and because of the changing character of hot spring action to move a major portion of existing wooden walks on the terraces. This job was done at month's end and the work accomplished is a credit to the crews and will be of great service to the people during the 1954 season. Walks were taken away from the Angel Terrace area and the Narrow Gauge Terrace to be placed on the main terrace where they will be most needed.

On May 11 a review was made of all of the signs which had been placed on concrete bases during the past winter and a memorandum prepared listing a loading and unloading order for their distribution in the field to the features for which the signs have been prepared.

The Regional Director Howard Baker and Regional Counsel Christopher Mullady were in the Chief Park Naturalist's office May 12 and at that time some of the problems of the Naturalist Division and personnel were reviewed with them.

Dr. John Craighead of the University of Montana was in the Chief Park Naturalist's office on May 22 and at that time discussed certain aspects of the wild life problems in Yellowstone Park.

Members of the Naturalist Division attended the Absaroka Conservation meeting on May 23 and on this occasion the Chief Park Naturalist made a tape recording of the meeting for record purposes.

A manuscript entitled "For the Benefit and Enjoyment of the People" which has been prepared by Condon was submitted to the Director's office for review and approval for release for publication if it is satisfactory. This manuscript was accompanied by 51 black and white prints and 17 Kodachrome and Ansco colored pictures.

Mr. Arthur Jacobson, retired Superintendent of George Washington Carver National Monument, visited at the headquarters museum on May 28.

Religious Services and Chapel Use

The Chapel was redecorated in May. This work was begun on May 6 and was completed on May 14. The appearance of the Chapel was vastly improved.

Regular Sunday School services were held in the Yellowstone Park Chapel through May 16. On May 16 special awards were given to Sunday School pupils. On the evening of May 16 the baccalaureate services for the Gardiner High School were held in the Yellowstone National Park Chapel with the Reverend Warren Strain of Livingston, Montana, preaching the baccalaureate sermon.

Contacts by telephone or through correspondence were made with the Park County Ministerial Association of Livingston, Montana, the Cody Ministerial Association of Cody, Wyoming, the Latter Day Saints organization at Powell, Wyoming, St. Anthony, Idaho, and Billings, Montana, and with the Roman Catholic Church in Cody, Wyoming, for the purpose of readying the 1954 religious services program. The church services program has been lined up and will be ready for printing and distribution early in June.

In-Service Training

Park Naturalists Watson and Elmore participated in a good portion of the training program conducted during the Ranger Conference during the period of May 5 through the 14. Park Naturalist Condon participated in some of the activities. Movies were shown by Elmore and Condon at the F.B.I. training sessions on the 6th and 7th and on the 13th Park Naturalist Condon occupied the morning hours with a discussion and the presentation of a series of movies. Park Naturalist Watson, during the entire training period, spent considerable time obtaining pictures of the training activities that were being conducted.

Training manuals and other informational literature were sent to those inexperienced men who are being employed for the first time in Yellowstone.

The regular weekly newsletter was assembled and distributed by the division.

Interpretive Services

The members of the Division carried on no active services within the park other than to keep the Mammoth Museum open part of the time. Condon presented a talk to the Gallatin Valley Sportsmen Association on the evening of May 5 in the assembly hall of the Gallatin Valley Court House in Bozeman, Montana. There were about 70 persons present. He presented another talk in Bozeman to the members of the Montana section of the American Society of Civil Engineers at their annual meeting and banquet. There were 96 persons in attendance. This proved to be a very stimulating group to talk with.

On the evening of May 22 a program was presented to the members of the Absaroka Conservation Committee organization and members of the Mammoth Community. This program consisted of movies of winter life in Jackson Hole as prepared by Dr. John Craighead and narrated by him. A reel of motion pictures on New Zealand, which was taken by Superintendent Francis Oberhansley of Tetons National Park, was also shown. There were about 110 persons in attendance. On the evening of May 23, Dr. Frank Craighead showed two large reels of movies to the Mammoth community. These were films made of the survival training program as carried on by the United States Air Force. About 60 members of the community were in attendance.

Museum Activities and Exhibits

Park Naturalist Elmore devoted a large portion of his time during the month of May to cleaning and rearranging the exhibits in the exhibit cases in the Mammoth Museum. This became necessary due to moving the cases at the time of the floor installation. Labels and exhibit materials were shifted in the cases. New labels were prepared for the gun exhibits with the aid of District Ranger Lee L. Coleman. New light bulbs were placed in all of the cases and all mounted specimens were cleaned.

Park Naturalists Watson and Elmore devoted ~~one day~~ two days to scrubbing and waxing the new floor before the museum was opened for public use.

Dr. Merrill D. Beal turned in to the museum for accessioning a beaded pipe bag made of buckskin which was a gift to the Yellowstone Park Museum from Dr. Rudolf W. Gerber. This pipe bag was given to President Chester A. Arthur in 1883 at the time of his visit to Yellowstone Park by one of the Shoshone chiefs. This has been accessioned.

On May 20 the shutters on the Artist Point, Willow Park, Norris foyer, and Firehole Canyon exhibits were pulled and these exhibits are now available for public use.

Park Naturalist Elmore devoted ~~six~~ 4 day's time during May to a reassembly of the Obsidian Cliff exhibit which was destroyed by vandals last fall. This has necessitated the replacement of all artifacts and this year we are placing in the exhibit plaster casts of the various artifacts instead of valuable pieces such as were put in the exhibit before. It is expected that the exhibit panels will be back in this unit early in June.

The Mammoth Museum opened for public use daily from 8 to 12 and 1 to 5 on May 21.

On the 25th word was received $1600 was available to fix up the Old Faithful Museum reception room and make some modifications in lighting and other interior changes in the large exhibit room.

The exhibit plans for the exhibit portraying First Events in the Old Faithful Area was completed and is ready for final typing and submission.

One of the large pictures in the Madison Museum which had fallen and broken the glass was repaired with a new glass and backing on the picture.

Personnel

A new register was received from Region Two on May 3, letters of inquiry were sent out, returns received from these and a selection was made on men on the 18th. Charles Gebler, Jack Clark, Robert Harris, R. L. Freer, and E. H. Melton were selected for appointment. At the month's close Melton had declined the job, Mr. Harris had declined, and acceptances were received from Gebler, Clark and Freer. A new register was asked for on the 18th and received on the 21st. Letters of inquiry were sent out on the 24th and a selection will be made from the register immediately after June 1.

A letter was sent to the Region Two office submitting added information and qualifications for Mr. Thad Stevens and it was asked that a review of his examination be made in hopes that this added information might raise his score.

Park Naturalists Marler and Biddulph arrived in the park May 29 and will be entered on duty June 1. Park Ranger Naturalist Ted Parkinson arrived on May 28 and will be entered on duty June 1.

Near the close of the month the change to the summer schedule was made with Park Naturalist Elmore being off Sunday and Monday and Park Naturalist Watson being off duty on Friday and Saturday.

Clerk-stenographer Mary Rohn was on duty all month except for four hours of annual leave taken on May 7 and 8 hours sick leave taken on May 10. Park Naturalist Elmore was on duty all month. Park Naturalist Watson was on duty all month except for 7 hours of leave taken May 6, 8 hours on May 11, and 6 hours May 14. Chief Park Naturalist Gordon was on duty all month except for 6 hours annual leave taken on May 14.

Research and Observation

Grizzly bear skulls of a female and cubs which were collected at the Fishing Bridge area in 1952 were cleaned and placed in storage. On the 21st a skull of a grizzly bear was obtained from the Old Faithful dump. This is one of four bears killed around the first of the month. The rapid deterioration of this specimen was amazing since in this short time the sutures separated, the teeth were falling out, and the skin covering the skull was readily removed. This specimen will be a good one for our collection.

A western robin was banded on May 12 when this bird was found by Park Naturalist Elmore in the museum basement. Band number 502-40402 was used on this bird.

In the Myriad Springs area, behind Old Faithful Inn and Hamilton's Lower Store, there are two new geysers which are showing considerable activity. One of these erupts to an estimated height of 50 feet and the eruption lasts about five minutes. Careful observations of these features have not been made but a record of their activities will be obtained as soon as seasonal personnel is on hand in the Old Faithful area.

Charles Gebler's outline for his proposed research project was reviewed and returned to him and also suggestions on the improvement of the questionnaire he expects to use were returned to him.

On May 16 the large spring on the main terraces on Mammoth Hot Springs dried up, the Narrow Gauge increased in activity, the Highland Spring, which was so active during 1953 was about dry, and White Elephant Back Terrace had increased in activity. By May 20 the big spring on the main terrace was again active.

The annual report on research activities in Yellowstone National Park, Report 9a4, was prepared and submitted on May 21. There were 32 active research projects in progress. Forms for the submission of this report were mimeographed locally and a supply of these forms have been ordered.

On May 21 specimens of travertine from the Mammoth Hot Spring Terraces were sent to Dr. Carl E. Georgi of the University of Nebraska for his use in conducting research on thermophilic bacteria. On this same date a number of buffalo horns were sent to Mr. R. W. Breckenridge of Ames, Iowa, for use by the Mesquakie Indians in presenting ceremonial dances.

On May 20, 76 bison were observed in the vicinity of the junction of Sentinel Creek and the Firehole River. There were three newborn calves with the group. Of interest was the fact that this herd might well have been the same group of bison that was observed in this same general vicinity on December 13, 1953. At that time there was one small newborn calf accompanying a large healthy cow and there was speculation as to how long this calf would survive. With the group of bison on May 20 was one large cow in good physical condition accompanied by one calf which was much smaller than the other last year calves and which was still carrying the golden coat. This is probably the pair that were observed in December. Another coincidence with respect to this bunch was that in December the herd counted was 77 animals. This group consisted of 76. On this same day and in the same location a pair of American bald eagles were observed.

Mr. Frederick Turner arrived in Yellowstone on May 22 and at that time the Chief Park Naturalist went over a research project which he is conducting on amphibians. Mr. Turner went to the Fishing Bridge area where he has been conducting his intensive studies of the western spotted frog.

Samples from the Norris Geyser Basin which were sent to the Chemistry Department of Brighan Young University were returned from that institution because they found it would be impossible for them to make a chemical analysis of this material for us.

Three readily observed nesting sites of Trumpeter Swan were occupied at the month's end by nesting birds. These were Swan Lake, the small lake below Madison Junction, and the Beach Springs Lagoon. Several non-nesting swan were staying along the Yellowstone River between Lake and Canyon.

Library

On May 28 Mr. Rogers gave to the Library Mr. Edward H. Moorman's biographical story of his work and experiences in Yellowstone. This has been placed in the Library and was provided in a typewritten form.

The following is a statement of the books, magazines, and pamphlets in circulation, received, and on indefinite loan:

Books received in May	9
Books in circulation	54
Books on indefinite loan	107
Magazines received in May	17
Pamphlets received in May	16
National Geographic maps	37

Natural History Association

The Association has ordered five hundred copies of Freeman Tilden's book for resale and it was determined that it would be a good gesture on the part of the Association to present a copy of this book to permanent employees. On May 4, 200 copies of this book were ordered with 100 of them to be distributed to permanent employees and the balance of them to be sold to seasonal or permanent employees at fifty cents per copy. The books were received at the close of the month and a letter has been prepared to be distributed with them to employees.

Mrs. Alice Quist was employed by the Association during the month and she devoted 70 hours to Association work preparing books for distribution to field stations, binding and filing Kodaslides, and working on the photo files.

Park Naturalist Watson spent the 26, 27, and 28 in transferring book stock for resale purposes to the Old Faithful Museum.

The revised copy proof of the wild animals book by Harold Brodrick was received from Edwards Brothers, Lithoprinters, and Park Naturalist Elmore devoted one day's time to checking this proof. It was returned to the printers and eight thousand copies have been ordered.

Arrangements were made to again employ Mrs. Lucille Magee of Salt Lake City as Librarian for the 1954 season.

A 30-watt portable public address unit was purchased by the Association from the Allied Radio Corporation. This unit consists of two speakers, an amplifier, and a three-speed record player. A special microphone was also obtained so that the speaker will have freedom of both hands while talking.

A set of four longplay records was obtained from Sears, Roebuck and Company to be used with this unit. On May 27 the unit was tested out in outdoor conditions and determined to be satisfactory. Three additional units have been ordered. These will be used at Mammoth, Old Faithful, and Fishing Bridge.

Duplicate kodaslides which were received from Mestons were sorted and classified by Park Naturalist Watson and sets sent to Glacier National Park and to individuals who had arranged for duplicate copies. The Association financed the purchase of these duplicates and through these efforts 130 additional slides have been added to each of the Yellowstone field sets. The Association also purchased six more individual slide file boxes and six lens brushes for use at the field stations.

Equipment and Supplies

A special memorandum was written on May 28 reporting in priority order the equipment and supplies urgently needed by the Naturalist Division to better facilitate their operations. This was submitted to the Administrative Officer for consideration when placing orders for equipment and supplies for Yellowstone.

Toward the month's close surplus property lists showed a large number of projection screens available at Clearfield, Utah, and eleven of these screens have been "frozen" pending inspection. If they are of good quality they will be obtained for our use.

One 35mm motion picture projector has also been requested from this area.

Photographic and Visual Aids

Park Naturalist Watson made pictures of school children and teachers on May 20. Several of the museum specimens of mammals which we have been unable to obtain pictures of in the wild were taken into natural settings and kodaslides were taken. These were otter, fox, marmot, marten, and golden eagle. Park Naturalist Watson took a large number of pictures, both kodaslides and black and white, of the Ranger Conference and training activities. Park Naturalist Elmore made the pictures of the Ranger group on the 14th.

A 400' reel of colored pictures made in New Zealand by Mr. Francis Oberhansley of Teton National Park was received on loan and it is hoped that a duplicate copy can be made before it is returned to Mr. Oberhansley. Kodaslides on loan to John McBeth, Idaho Falls, Idaho; Charles Gebler, Ann Arbor, Michigan; and Harvey Reynolds, Theodore Roosevelt National Memorial Park were returned during the month. The "Wild Animal Heaven" movie was sent to Wallace Hennessy on loan May 31. There were 130 kodaslides added to each of the Yellowstone Park field sets. Ninety 4x5 black and white exposures were made during the month and 110 were developed, and processed in the darkroom. Three rolls of 36-exposure K-135 was exposed during the month and one roll 100' of

16mm Kodachrome was exposed.

Proposed outline of work for June

1. Complete the refurbishing of the Obsidian Cliff exhibit and open it.
2. Distribute book stocks to the field stations.
3. To open the Old Faithful, Fishing Bridge, Madison Junction and Norris Museums.
4. To enter all seasonal personnel on duty.
5. To initiate the complete program of interpretive activities.
6. To prepare and issue the May-June Nature Notes.
7. To distribute equipment and supplies to the field.
8. To hold Inservice training programs for new inexperienced employees.
9. To hold Inservice training programs on the use of visual aid equipment and public address unit use at each station.
10. To assist in the Inservice training of concessioners' employees.
11. To work on 16mm motion pictures.
12. To review and resubmit if possible the interpretive development outline.
13. To distribute copies of Your National Parks - What the Parks To You and Me to permanent employees and to make copies of these available to seasonal employees.
14. To completely revise the interpretive program for the 1954 season before initiating it.
15. Routine work of the division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Original to - Superintendent
Copy to: Region Two
Director
Museum
Condon

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
June - 1954

General

That portion of the month up to June 17 was very stormy, snow occurred on many days and snow on the higher mountain passes closed the roads to traffic on a number of occasions. The last few days of the month were cold and stormy with snow occurring over most of the park on the 28th. The inclement weather dampened the spirits of many and materially reduced travel in the park.

During the month there was a long struggle that continued in the process of getting the interpretive program organized and underway. Personnel was hard to obtain and funds restricted the period of employment which could be offered to people in June. At the month's close, a program was ready to roll in full form for the balance of the 1954 season.

Administration

Chief Park Naturalist Condon directed the overall activities of the division for the month. Park Naturalist Watson supervised phases of the program at Old Faithful, Madison, Norris, and Mammoth. Park Naturalist Elmore assumed the same responsibilities for Tower Fall, Canyon, Fishing Bridge, and West Thumb. The five Seasonal Park Naturalists GS-5 who are assigned to key stations, handled a number of administrative responsibilities with respect to their local program.

Special Activities and Conferences

Mr. Burton Harris, author of the book John Colter, was in the office of the Chief Park Naturalist on the 3rd and 4th of June. Mr. Harris was shown the Yellowstone Park research library and some of the materials which we have that are pertinent to the early history of this area. He was also taken on the 4th of June to see the Indian wickiups near the junction of Lava Creek and the Gardner River.

On June 8 a great deal of material was taken out to the field stations when a trip was made around the loop. At that time trash bags, maps, fire prevention literature, and other materials were delivered to each of the field stations.

Yellowstone National Park
Yellowstone Park, Wyoming

[illegible]
June - 1954

General

That portion of the month up to June 17 was very stormy, were occurred on many days and some on the highest mountain passes closed the roads to traffic on a number of occasions. The last few days of the month were mild and sterny with some occurring over most of the park on the 30th. The inclement weather discussed the rebirth of [illegible] and materially reduced travel in the park.

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On June 8 a great deal of [illegible] was taken out to the Field Stations when a [illegible] was made around the loop. At that time [illegible] maps, fire prevention literature, and other [illegible] were delivered to each of the Field Stations.

Chief Park Naturalist Condon attended meetings in Superintendent Roger's office on June 11th and June 17th dealing with the installation of the new entrance station and information center at West Yellowstone.

On June 1, Dr. Lewis Van Ven Berghe of the Belgium Congo was in the Chief Park Naturalist's office and at that time visited with Superintendent Rogers in his office. Dr. Van Ven Berghe is the Director of the Institut Pour La Recherche Scientifique en Afrique Centrale, I.R.S.A.C., that is doing research work in the Belgian Congo.

On June 24, Chief Park Naturalist Condon spent considerable time at the Missouri Basin Inter-Agency Committee meetings at the Lake Lodge and ran off a 16mm sound motion picture on recreation in the Missouri Basin areas which was prepared for the Army Engineers. General Potter was making the presentation.

Dr. Harry V. Truman, a former park ranger naturalist in Yellowstone National Park, stopped in at the Chief Park Naturalist's office on June 24 and renewed acquaintances with many of his old friends. Mr. Truman is now working on a botanical research project in connection with the research center at Moran, Wyoming.

Mr. Hugh Wilmar, who is a photographer for the Walt Disney motion pictures, arrived in Yellowstone on the 28th and came to the Chief Park Naturalist's office. Mr. Wilmar is taking photographs of bears and his primary purpose is to obtain still pictures for use in publicizing Disney pictures.

A great deal of time was spent in getting the seasonals set up in their quarters. Park Naturalist Elmore devoted a good portion of his time during June to the shifting of furniture, putting up tent tops, and otherwise attending to the many jobs associated with getting seasonal personnel happily settled in their quarters. All equipment in the quarters has been charged to the occupants.

Religious Services and Chapel Use

The Yellowstone National Park Chapel was used during the month at the scheduled hours for religious services by the Student Ministry, the Latter-Day Saints, and the Roman Catholics. The Student Ministry program has been using the chapel regularly since June 13th for scheduled choir practices and bible discussion groups.

The church circular was prepared and issued to the field. The Yellowstone Park Company, through their printer, Joe Bill, printed several hundred printed posters for placement throughout the park announcing the schedule of church services. There is a copy of the religious services circular attached which gives details concerning the religious services program.

The Reverend Warren W. Ost arrived in Yellowstone Park on June 4, and left June 14. Reverend Ost was here in connection with the program of the Student Ministry in the National Parks which is sponsored by the National Council of Churches. He worked with the student ministers in getting the program for the 1954 season underway. Mr. Bill Henning will function as the minister in charge of the program in the Mammoth area and other ministers are listed in the church circular. The first service in the Yellowstone National Park Chapel for the 1954 season was held June 6.

A series of letters were sent to the Roman Catholic priests, the Latter-Day Saints church group, the ministerial associations at Cody, Wyoming, and Livingston, Montana. These letters were transmitting to these people complimentary permits for their automobiles and also cards prepared by Mr. Huntley Child which will permit the ministers to obtain one night's lodging on each weekend that services are conducted here.

The spring meeting of the local committee on a Student Ministry in the National Parks was held in the conference room on the evening of June 11. Chairman Warren Hamilton presided at the meeting. A special meeting of this committee was held on the evening of June 21 for the purpose of determining whether or not a resident minister would be retained in Yellowstone Park for the winter months. A favorable decision was reached and Mr. Bill Henning, it is planned, will be retained as the resident minister here.

The Roman Catholic priests who will be assisting Father Penny of Cody, Wyoming, in conducting the Roman Catholic services during the 1954 season are Reverend Otho Sullivan and Reverend Bernard Melget.

In-Service Training

The in-service training activities during the month of June were many and members of the Naturalist Division participated in a variety of programs which were designed to provide training for seasonal National Park Service employees and, in addition, for employees of the concessioners. In-service training programs in which Chief Park Naturalist Condon participated were as follows: June 9 a special program at 8:30 p.m. for the bus drivers was given in the canteen. At this time District Ranger Rudolf Grimm talked to the group and then Chief Park Naturalist Condon gave them a talk and showed them the Geyserland movie with appropriate narration. There were 40 men and about 20 other persons present.

A series of in-service programs were conducted for the concessioners' employees at the key stations around the loop. These were presented as follows:

Area	Date	Attendance	Instructors
Mammoth	June 15	400 persons	District Ranger Grimm Huntley Child Jr. Chief Park Naturalist Condon

Area	Date	Attendance	Instructors
Canyon	June 16	650 persons	Ranger Merle Stitt, Huntley Child, Jr. & Chief Park Naturalist Condon
Lake	June 17	700 "	District Ranger Stevens, Huntley Child, Jr. & Chief Park Naturalist Condon
Old Faithful	June 18	400 "	District Ranger [illegible], Huntley Child, Jr. & Chief Park Naturalist Condon.
Tower Fall	June 22	200 "	District Ranger Bowman, Huntley Child Jr. & Chief Park Naturalist Condon.

These programs were presented each evening at 9:00 p.m. at the stations listed and the District Ranger made comments on the regulations and conduct expected from "savages" in the district area, Mr. Child made comments concerning the employees' responsibilities, and Chief Park Naturalist Condon gave them a talk and also familarized them as much as possible with the natural resources of the park. The Yellowstone Park Company provided an in-service training movie with an appropriate sound track for use in conjunction with the National Park Service "Trip Around the Loop" movie. These pictures were shown at each of the programs.

A program was prepared for the in-service training of new seasonal rangers and park ranger naturalists. The trainees were given their in-service training on June 22, 23, 24. Condon talked to them at the canteen building on two occasions on the 22nd and Park Naturalist Elmore gave them a short talk and showed them a training movie on the evening of the 22nd. Seasonal personnel were taken on an intensive training trip around the loop of the park on the days of the 23 and 24. Park Naturalists Watson, Elmore, Marler, and Lystrup are to be commended for the fine work which was done by them on the training trip. Copies of the training schedule are attached to this report. There was a long session on the evening of the 23rd at Old Faithful and the party did not arrive home at Mammoth until after 9:30 p.m. on the 24th. Eighteen rangers and five naturalists were the trainees.

Interpretive Services

Part of the interpretive program for the month was the appropriate signing of features with either informational signs or place name signs. Mr. Elmer Armstrong, with a crew from the engineering division, spent about two weeks during the month placing informational signs and place name signs at significant features. This was a difficult job and the men

Area	Date	Attendance	Presentation
Concord	June 1[illegible]	400 persons	[illegible]
Lake	June 17	700 "	[illegible]
Old Faithful	June 18	400 "	[illegible]
Tower Fall	June 22	200 "	[illegible]

These programs were presented each evening at [illegible] p.m. at the stations listed and the District Ranger made comments on the [illegible] and content reported from "headquarters" in the [illegible] area. Mr. [illegible] comments concerning the [illegible] responsibilities, and Chief [illegible] Naturalist [illegible] gave time to talk and show film [illegible] possibly with the general purposes of the park. The Yellowstone Park Company provided the [illegible] training movie with a [illegible] track for use in conjunction with the National Park Service "[illegible] the Loop" movie. These pictures were shown at each of the programs.

A program was prepared for the in-service training of new seasonal rangers and park ranger naturalists. The trainees were given their in-service training on June 22, 23, 24. Course lasted for three of the eighteen training days. On two occasions on the [illegible] and Fort Yellowstone [illegible] gave them a short talk and showed them a training movie at the evening of the 23rd. Seasonal personnel were taken on an informative training trip around the loop of the park on the [illegible] of the 23rd and the Fort Yellowstone [illegible], [illegible], [illegible], and [illegible] were [illegible] for the first [illegible] night was spent by them at the training [illegible]. [illegible] of the training [illegible] were attached to their report. There was a long session on the evening of the 23rd at the [illegible] [illegible] arrive home at [illegible] until after 7:30 p.m. on the 24th. [illegible] [illegible] and [illegible] [illegible] were the trainees.

Interpretive Services

Part of the interpretive program for the [illegible] was the [illegible] signing of [illegible] with other international signs on [illegible] [illegible]. Mr. [illegible], with a crew from the [illegible] [illegible], spent about ten weeks during the [illegible] placing international signs and [illegible] [illegible] at [illegible] [illegible]. This was a [illegible] [illegible] [illegible] [illegible]

were assisted by Park Naturalists Watson and Marler in seeing that the concrete markers with signs on them were appropriately located.

The amphitheaters at Mammoth and West Thumb are in poor condition and the Park Ranger Naturalists at Mammoth removed many of the exceedingly rotten logs from this amphitheater. This project has reduced the seating capacity to about one half of what it was formerly.

A study was made on June 8 of a possibility of enlarging the West Thumb amphitheater and measurements and a rough sketch made of the proposed new amphitheater for that area. On June 19 a visit was made to the Madison Junction area for the purpose of selecting a site for a small campfire circle there. A field reconnaissance was made and a tentative site selected subject to the review and approval of other members of the Yellowstone staff.

Three portable public address units, which have been obtained by the natural history association, were distributed to the field. Two of these have been placed at Old Faithful where they are used on the guided trips and one has been placed at Canyon for use on the Uncle Tom trip through the Canyon.

Four new public address units have been placed in the field. These public address units were obtained by the natural history association and have been distributed as follows: Fishing Bridge - one unit, Old Faithful Lodge - one unit, Old Faithful Amphitheater - one unit, and Mammoth - one unit. These units consist of a lavalier-type microphone, a 30-watt amplifier, two 12-inch speakers, and a three-speed record player. Each of these units also has with it a set of records for use at the beginning of each evening's program.

A special program was given by Chief Park Naturalist Condon to a large audience on the evening of June 24 at Lake Lodge. This program was provided primarily for the Missouri Basin Inter-Agency Committee but the public was also invited and there were more than 450 persons in attendance. The program as presented seemed to be well received by those present. The program consisted of a discussion of the natural resources of Yellowstone Park and their significance to the people and then the presentation of the resources in the form of a 16mm colored motion picture.

All interpretive services on the east side of the park were in operation by June 25 except for Tower Fall which did not open its full program until June 30. The major portion of the west side program was going by June 24 and the full program as anticipated for the season will not be functioning until two of the seasonal men report for duty early in July.

Park Naturalist Watson spent considerable time refurbishing and repairing the self-guiding nature trail labels for use on the Gentian

Trail at Old Faithful. This work was completed and the signs placed on the self-guiding trail on June 22. The Green Dragon Spring self-guiding trail has been in operation since June 16. The Elevatis Gulch Trail since June 24. The Lost Falls Trail at Tower Fall will be labeled early in July.

Museum Activities and Exhibits

Members of the permanent staff kept the Mammoth Museum open until June 15 when seasonal help became available and took over the museum information desk operation responsibility.

Revision of the Old Faithful museum began on June 7 and continued throughout the month. The cases in the Old Faithful Museum were raised to a height of 27" at their base, the interior of the exhibit room and the reception room were repainted. A new information desk was installed and at the month's close the old one has not yet been removed although it is anticipated that we will soon be able to use the new one. In revising the exhibit room interior, it was necessary to remove the exhibits from the cases and then replace them. Park Naturalist Elmore spent several days at the Old Faithful area working with the painters and carpenters on this project. The paint colors used in the respective rooms were a peach for the walls and an off-white for the ceilings and dawn grey for the woodwork and cases for the exhibit room. A turquoise blue and off-white were used in the reception room. The information desk and woodwork in this room were painted dawn grey. At least 30 light bulbs were replaced in the Old Faithful Museum. A large number were replaced in the Mammoth and Fishing Bridge museums as part of the program of having the museums in top order for the summer season.

Park Naturalist Elmore, during the month, devoted some time to work on the plans for exhibits to be placed in the information center at West Yellowstone.

The panels for the Obsidian Cliff exhibit were finished and installed by Elmore on June 19. The new plate glass for this exhibit case was cut from some which we have in stock.

Personnel

Park Naturalist Watson was on duty all month, Park Naturalist Elmore was on duty all month, Clerk-Stenographer Rohn was on duty all month except for one hour leave taken on June 3, and Chief Park Naturalist Condon was on duty all month.

Cooperation was received from the Yellowstone Park Company in helping to solve one of our personnel problems when they made available

Trail at Old Faithful. This work was completed and the signs placed on the self-guiding trail on June 22. The Green Dragon Spring self-guiding trail has been in operation since June 16. The Clematis Gulch Trail since June 24. The Lost Falls Trail at Tower Fall will be labeled early in July.

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The panels for the Canadian Cliff exhibit were finished and installed by Elmore on June 19. The new plate glass for this exhibit case was cut from them which we have to store.

Personnel

Park Naturalist Elmore was on duty all month, Park Naturalist Elmore was on duty all month, Clerk-Stenographer John was on duty all month except for the hour leave taken on June 3, and Chief Park Naturalist Condon was on duty all month.

Cooperation was received from the Yellowstone Park Company in helping to solve one of our personnel problems when this made available

laundry facilities and bathing facilities for seasonal personnel at Mammoth and Old Faithful. Mr. Huntley Child, Jr. has been most accommodating in this respect.

The seasonal personnel for the 1954 season are indeed fortunate since we have been able to obtain the best quarters situation the division has yet experienced. There has been a trailer house added to the quarters at Old Faithful, a double quarters unit at Canyon to replace the tent-top there, and an additional apartment has become available at Old Faithful for quarters, and at Mammoth the librarian, Mrs. Wagner, was given quarters in the front row and also Senior Naturalist Clarence Allaman. This improvement in the quarters for seasonal personnel is appreciated by all and is available through the cooperation of others.

An interim efficiency rating was submitted on June 5 for Mrs. Mary Rohn, Clerk-stenographer.

During the month the seasonal and permanent personnel of the division have been taking driver's examinations to obtain operator's permits so that they can drive government automobiles.

The seasonal personnel for the 1954 season have been selected in their entirety at the month's close. Many telegrams were sent trying to get personnel and by the end of June the civil service register for seasonal park ranger naturalists was exhausted. Although all seasonal men have not reported, there are 30 of them on the job and it is anticipated that Park Ranger Naturalists Donald Larson, Samuel Beal, and Hugh Kingery will report after July 1. The entry on duty dates for the seasonal staff for the season are as follows:

Name	E.O.D.	Type of Appointment
George D. Marler	June 1, 1954	Indefinite
Ted J. Parkinson	June 1, 1954	"
Lowell G. Biddulph	June 1, 1954	"
Joseph F. Catmull	June 10, 1954	"
Herbert T. Lystrup	June 14, 1954	"
Arthur Nash	June 15, 1954	"
Joseph Murphy	June 15, 1954	"
Ray J. Davis	June 15, 1954	"
Walter F. Merriman	June 17, 1954	"
William A. Fischer	June 18, 1954	"
Robert J. Jonas	June 19, 1954	"
Clarence G. Allaman	June 21, 1954	"
Frank D. Kantchler	June 21, 1954	"
Charles J. Gebler	June 21, 1954	"
Willis Eggler	June 22, 1954	"
Herrold Rasmussen	June 22, 1954	"
Frank Shaw	June 22, 1954	"

[illegible] facilities and between facilities for economic [illegible] of [illegible] and the Patrons. [illegible] Public Relations, etc. [illegible] management [illegible] [illegible] program.

The [illegible] recommend for the [illegible] years [illegible] [illegible] have been made to [illegible] the [illegible] [illegible] [illegible]

Name	E.O.D.	Type of Appointment
Wayne F. Replogle	June 23, 1954	Indefinite
Wallace M. Good	June 24, 1954	"
Simon Simonian	June 24, 1954	"
Wallace J. Hennessy	June 24, 1954	"
William Driscoll	June 24, 1954	Temporary
Albert L. Fisher	June 24, 1954	Indefinite
George A. Gardner	June 24, 1954	"
Frederick B. Turner	June 24, 1954	"
Kenneth D. Armitage	June 26, 1954	"
Alma B. Teuscher	June 29, 1954	"
Paul E. Hering	June 30, 1954	Temporary
Thad W. Stevens	June 30, 1954	Indefinite
Robert L. Freer	June 30, 1954	"

Laborers (Janitors)

Howard Biddulph	June 14, 1954
Ted C. Davis	June 15, 1954
Burton E. Anderson	June 15, 1954

Dr. Erling Dorf of Princeton University entered on duty as a collaborator with the National Park Service on June 21.

During the month of June a number of long distance telephone calls were received from men who were certified to us as candidates for park ranger naturalists. Among these were calls from Donald Larson, Albert Fisher, William Driscoll, and George Gardner.

Research and Observation

On June 9, a marten was killed between West Thumb and Lake and District Ranger Stevens brought this specimen to Mammoth museum. It has not as yet been prepared as a study specimen but is being retained in the deep freeze. On June 19, a series of interesting pictures were obtained of the three-toed woodpecker which is establishing his nest near the naturalist apartments at Old Faithful.

On June 15 and 19, water specimens were collected from thermal features in the Upper Geyser Basin, Norris Geyser Basin, and from the Mammoth Hot Spring Terraces for Dr. Harmon Craig of the University of Chicago. These water specimens were sent to Dr. Craig on June 21.

Dr. Erling Dorf, of Princeton University, who has been appointed as a collaborator with the National Park Service, and who is conducting a research study on fossil plants, obtained for himself and members of his party collecting permits for rocks and fossils. Collecting permits

for this party were issued to the following: Dr. Erling Dorf, Princeton University; John T. Whetten, Princeton University; Gilmor S. Hamill, Princeton University; Robert E. Dorf, Princeton University; Harold H. Dorf, Princeton University; Donald M. Blue, Princeton University.

Other collecting permits issued during the month of June were as follows: Dr. Harry V. Truman - botanical specimens for the University of Wyoming and Dennison University; Mary Kay Wilke - botanical specimens for the College of St. Scholastica, Duluth, Wisconsin; Merrold Asmussen - botanical specimens, University of South Dakota; Phil A. Hendt, rock specimens from the Ansden formation only, for Stanford University; Dennis J. Brown, insects, Walla Walla College; Dr. Allen A. Beetle, botanical specimens, University of Wyoming.

A grizzly bear was killed at Fishing Bridge by District Ranger Stevens on June 20 and it was hoped that this specimen could be saved. Lack of personnel and other work obligations, however, made it impossible to preserve the skin and skeleton of this bear and it was hauled to the Trout Creek dump on June 21.

Of unusual interest was the finding of a horned toad by Park Ranger David Beal near his residence at West Yellowstone. This animal was turned in to the headquarters museum on June 21 and has been preserved and is thought to be the first record of this particular species in Yellowstone Park.

Library

Mrs. Lucille Wagner began her services as librarian for the 1954 season on June 9. Mrs. Wagner works six days each week and has the library available for general use from 8 a.m. to 5 p.m. each of these days. Mrs. Wagner's work is largely with the cataloging, classifying, and filing of library material. During the month thefollowing books, magazines, and pamphlets were in circulation, on indefinite loan, or received:

Books received in June	4
Magazines received in June	11
Pamphlets received in June	88
Books in circulation	170
Pamphlets in circulation	4
Magazines in circulation	5
Books on indefinite loan	175

Natural History Association

Mrs. Alice Quist was employed as clerk for the Association and worked a total of 75 hours during the month. During early June 500 copies of the paper bound book Our National Parks - What They Mean to You and Me by Freeman Tilden were received. These have been placed on

for this party were issued to the following: Mr. Ewing Dorf, Princeton University; John R. Whetten, Princeton University; Gilmer A. Smith, Princeton University; Robert C. Dorf, Princeton University; Harold C. Dorf, Princeton University; Donald R. Glass, Princeton University.

Other collecting permits issued during the month of June were as follows: Dr. Harry V. Brown - botanical specimens for the University of Wyoming and Brigham University; Mary Gay Wilson - botanical specimens for the College of St. Scholastica, Duluth, Minnesota; Harold Ahlenstein - botanical specimens, University of South Dakota; Phil A. Hendt, rock specimens from the Jordan Formation only, for Stanford University; Lewis A. Brown, Lincoln, Wells Wills College; Dr. Alan A. Beetle, botanical specimens, University of Wyoming.

A grizzly bear was killed at Fishing Bridge by District Ranger Stevens on June 20 and it was hoped that this specimen would be saved. Lack of personnel and other work obligations, however, made it impossible to preserve the skin and skeleton of this bear and it was hauled to the Trout Creek dump on June 21.

Of unusual interest was the finding of a horned toad by Park Ranger David Neal near his residence at West Yellowstone. This animal was turned into the headquarters garden on June 21 and has been preserved and is thought to be the first record of this particular species in Yellowstone Park.

Library

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Books received in June	4
Magazines received in June	11
Pamphlets received in June	[illegible]
Books in circulation	175
Pamphlets in circulation	4
Magazines in circulation	5
Books on indefinite loan	175

Natural History Association

Mrs. Tilden Quist was employed as clerk for the association and worked a total of 25 hours during the month. During early June 1951 copies of the paper bound book Our National Parks - What They Have to Tell and Do by Freeman Tilden were received. These have been placed in

sale at the information desks and have been selling rather well. Kodaslides for use in advertising this book at the campfire programs were prepared by Park Naturalist Watson.

The book stocks for the various museums were distributed as follows: Books to the Mammoth Museum on June 1; to the Fishing Bridge Museum on June 1; these were taken out by Park Naturalist Biddulph. Park Naturalist Watson distributed books to the Madison Museum on June 15 and books were taken to the Old Faithful Museum before June 1.

Mrs. Quist mimeographed 500 copies of the listing of the books sold by the Association and their prices. These are distributed by mail to those persons who are seeking information on publications dealing with Yellowstone National Park.

The Yellowstone Library and Museum Association presented the paper bound Tilden book to 104 permanent employees on June 4. There have been many expressions of appreciation and favorable comments on this book received from the permanent employees and it is thought that the Association made a definite contribution to the community's thought on National Parks when they made this book available.

Mrs. Lucille Wagner arrived at West Yellowstone on June 7 and was picked up by Chief Park Naturalist Condon and settled in her quarters at Mammoth about 10 p.m. that evening. She entered on duty as librarian June 9.

The Library and Museum Association has contributed to the Interpretive program by purchasing the following equipment and supplies: six lens brushes were purchased for use at various field stations in binding kodaslides. They are used in this work to remove the dust and lint from pictures. The lens brushes are also used to clean projector lens used in the projection of illustrative materials. The Association acquired ten more metal kodaslide boxes for holding kodaslides distributed to field stations. Four public address units have been acquired and these have been distributed to field stations along with sets of records for their use. These units are all marked with the Library and Museum Association code and then distributed to the field on June 22 by Park Naturalist Watson. A large number of kodaslides were duplicated and made a part of the interpretive division illustrative sets. These were paid for by the natural history association.

Eight thousand copies of the Animal Life of Yellowstone reprint, which was prepared by Edwards Brothers, Lithoprinters, were received on June 25 and have been added to the Association's book stock.

Book sales by the Association during June were $2,508.07. The following tabulation compares the sale at the various museums during June 1954 with the same period in 1953:

Station	June 1954 Sales	June 1953 Sales	Difference	% of increase or decrease
Bookroom	$ 145.87	$ 80.95	$64.92 Inc.	80.2% increase
Mammoth	437.10	476.10	39.00 Dec.	8.2% decrease
Madison*	7.90	—	—	— —
Old Faithful	1,640.30	1,709.45	69.15 Dec.	4.0% decrease
Fishing Bridge	276.40	369.05	92.65 Dec.	25.1% decrease
	$2,508.07	$2,635.55		

*No sales at Madison during this period in 1953.

Equipment and Supplies

In last month's report we indicated that a number of screens and a 35mm motion picture projector had been listed as available at Clearfield, Utah, and that these had been frozen pending our inspection. It is hoped that we will have an opportunity to inspect these screens and projector and either obtain them or release them sometime during the month of July. We had hoped that this material would be available for incorporation into the interpretive program for the entire season.

A quantity of supplies were purchased from the storehouse for use in the museum during the 1954 travel season. These supplies consisted of sweeping compound, toilet tissue, paper towels, soaps, and other cleaning materials which are essential to the operation of museums where a large number of people concentrate. In addition to this type of supply a lot of electrical cord and light bulbs were purchased for use in the museums. Several extension cords were made so this type of equipment would be on hand for the naturalists to use in connection with the projection of pictures.

Park Naturalist Elmore devoted a great deal of time during the month to getting the seasonal quarters in order and to the preparation of an inventory covering the property in these buildings.

Photography and Visual Aids

The field stations were supplied with visual aids equipment and kodaslides on the following dates: Old Faithful - June 15; Fishing Bridge - June 15; Canyon - June 16; West Thumb - June 22; Mammoth - June 22; Tower Fall - June 30. Each of these field sets now contains about 915 slides covering all phases of Yellowstone National Park natural history and history. The present selection is about 3 times as large as the kodaslide collection was when the slides were originally issued to the field about six years ago to replace the old-fashioned lantern slides.

The photographic work done during June was very limited and the following film was exposed: one 36-exposure roll of outdoor Kodachrome, one 20-exposure roll of in-door Kodachrome, 35-135, one hundred feet of 16mm Kodachrome motion picture film. The black and white film exposed was 30 4x5 black and white shots and these were developed in the darkroom.

During the month several 8x10 enlargements of Yellowstone subjects were sent out to satisfy requests for pictures to use in various publications.

Proposed Outline of Work

1. Prepare the May-June issue of Nature Notes.

2. Put new sound track on the 16mm motion pictures.

3. Edit and prepare a new movie.

4. Hold in-service programs covering equipment and interpretive techniques. These training programs to be held at each of the field stations.

5. Work on the interpretive development outline.

6. Work on the museum exhibits and renovation of the visitor center.

7. To do extensive planning and preparatory work on the exhibits that are to be used at the information center at West Yellowstone.

8. To make pictures of Yellowstone's natural resources and of public activity in the park.

9. To carry out the routine work of the division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Attachments - 2
Original to Superintendent
Copy to: Region Two
Director
Museum
Condon

Canyon Outdoor Amphitheater:

Protestant (A National Parks Ministry)	10:30 a.m.
Latter Day Saints	7:00 p.m.

Camp Roosevelt Lodge Lobby:

Protestant (A National Parks Ministry)	4:00 p.m.

West Thumb Amphitheater:

Protestant (A National Parks Ministry)	4:00 p.m.

West Thumb Recreation Hall: (Tuesday evening)

Protestant (A National Parks Ministry)	9:00 p.m.

These religious services are to be announced each Saturday night at the campfire programs by seasonal Park ranger naturalists and the information contained here is to be used at all museum and ranger station information desks.

Printed schedules of church services for the 1954 season are posted on bulletin boards at all public use areas. Refer people to them.

The Protestant services conducted by a National Parks Ministry at Mammoth, Canyon, and Camp Roosevelt will be in charge of Student Minister William F. Henning and those at Old Faithful, West Thumb, Lake, and Fishing Bridge will be in charge of Student Minister Robert B. Schweikart. These young men are sponsored by the National Council of the Churches of Christ and will be available all week, each week, to render any aid they can to the park visitors and employees. Mr. Henning will be headquartered at Mammoth and Mr. Schweikart at Old Faithful. Assisting these men will be student ministers David J. Hager at Canyon, and John M. Sheild at Fishing Bridge.

The afternoon and evening Protestant services at Fishing Bridge and Lake will be directed by Rev. R. N. Buswell of Cody, Wyoming. He will be assisted during the season by the following ministers: Ralph A. Whicher, Ray Mattison, Herschel Martin, and Ronald Lundy, all from the Cody area.

The Roman Catholic services will be under the direction of the Rev. Francis T. Penny of Cody, Wyoming. He will be assisted by three priests.

Latter Day Saint services will be directed by missionaries from the St. Anthony, Idaho, Lovell, Wyoming, and Billings, Montana, missions.

The Protestant ministers of the Park County Ministerial Association who will conduct morning services at Old Faithful are:

June 20	Reverend Robert Dunn
June 27	Reverend Arthur Seebart
July 4	Reverend Forrest Clark
July 11	Reverend Louis Ortmayer
July 18	Reverend Melvin Walker
July 25	Reverend Melvin Walker

August 1	Reverend Louis Ortmayer
August 8	Reverend Arthur Seebart
August 15	Reverend Warren Strain
August 22	Reverend Robert Dunn
August 29	Reverend Don Redfield

There will in all probability be inquiries from people concerning the time of church services at West Yellowstone and Gardiner, Montana. There will be Roman Catholic services in West Yellowstone in Our Lady of the Pines Roman Catholic church each morning at 7:30 a.m. and on Sundays at 7:00 and 9:00 a.m. The Roman Catholic services in Gardiner will be held in the Chapel Dr each Sunday at 9:00 a.m. There will be Protestant services in West Yellowstone and Gardiner at 8:00 p.m. each Sunday.

This circular is supplied you so that you will be able to properly inform the visitors on all religious services planned for the 1954 season.

Edmund B. Rogers
Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone National Park
Yellowstone Park, Wyoming

June 8, 1954

PROGRAM OF INTERPRETIVE SERVICES
1954 SEASON

The program of interpretive services to be in effect for the 1954 season at the various field stations is as follows:

MAMMOTH

MUSEUM HOURS	8:00 a.m. to 10:00 p.m.
INFORMATION DESK	There is a man on duty at the information desk during museum hours. He answers questions and sells literature on the national parks.
MUSEUM INTERPRETIVE SERVICE	The park ranger naturalist on desk duty gives museum talks whenever enough visitors who are interested in obtaining interpretive information are present to call them together. Museum talks are given each time bus parties arrive at the museum.
GUIDED WALKS	NATURE WALK - Exploring the terraces and woodlands. Leaves the headquarters museum 8:00 a.m. and Liberty Cap at 8:15 a.m. This walk follows the route of the Terrace Forest trail from Liberty Cap to Narrow Gauge Terrace, thence to Clematis Gulch and down Clematis Gulch. The trip is completed by 11:00 a.m. TERRACE WALKS - To interpret and view thermal phenomena. Morning trips 9:00, 10:00 and 11:00 a.m., beginning from Liberty Cap. Afternoon trips at 1:00, 2:00, and 3:00 p.m. These terrace walks are to be taken over the lower portion of the Mammoth Hot Spring Terraces and return to Liberty Cap.
SELF-GUIDING TRAIL	CLEMATIS GULCH SELF-GUIDING TRAIL - maintained by the Mammoth naturalist staff. It is a self-guiding trail which begins at the mouth of Clematis Gulch and continues up this gulch for about 1/2 mile, crosses the ridge to the vicinity of Narrow Gauge Terrace and returns to Liberty Cap via the old Norris road. There will be no guided trips on this trail, but it is well-signed with interpretive labels for the use of all park visitors who care to travel the trail at their leisure.

AUTO CARAVANS

TERRACE CARAVAN - Begins at the headquarters museum at 2:00 p.m. Goes over the upper terraces visiting Main Terrace, Prospect Terrace, Soda Spring, and terminates at Angel Terrace.

WILDLIFE SEARCH CARAVAN - begins at the headquarters museum at 6:30 p.m. and returns to the campfire circle by 8:00 p.m. Visitors drive their own cards. Moose, antelope, deer and other animal life may be seen on this trip. The road follows the main highway from Mammoth to Willow Park or over other road sections if it becomes desirable to use them in order to seek wildlife. The time of this activity may be advanced to an earlier hour in the evening in the late season.

EVENING CAMPFIRE PROGRAM

Each evening a program is held in the Mammoth outdoor amphitheater across from the Chapel from 8:00 to 9:00p.m. This is a short campfire talk illustrated with colored slides or motion pictures.

NORRIS GEYSER BASIN

MUSEUM HOURS

7:30 a.m. to 7:30 p.m. Friday, Saturday, Sunday.
8:00 a.m. to 5:00 p.m. Monday, Tuesday, Wednesday and Thursday.

INFORMATION DESK SERVICE

There is a man on duty at the information desk during museum hours. He answers questions and provides other interpretive services.

MUSEUM INTERPRETIVE SERVICES

Short museum talks are given to groups of people who assemble at the museum and to bus parties at the time of their arrival there.

GUIDED WALKS

There are geyser walks conducted by park ranger naturalists over the main geyser basin loop trail in the morning and afternoon upon the arrival of bus tour parties and additional trips will be made whenever there are large enough groups of motorists or special parties which have assembled and who are interested in such guide service.

SELF-GUIDING TRAIL

GREEN DRAGON SPRING SELF-GUIDING TRAIL - a well-labeled self-guiding geyser and nature trail. It is maintained by the park ranger naturalist at Norris. This trail has two routes that can be followed - a short trip of one mile, or the entire southern Norris geyser basin loop of 1-3/4 miles.

MADISON JUNCTION

MUSEUM HOURS	7:30 a.m. to 7:30 p.m. - Friday, Saturday & Sunday 8:00 a.m. to 12:00 and 1:00 to 5:00 p.m. - Monday Tuesday, Wednesday and Thursday.
INFORMATION DESK SERVICE	A park ranger naturalist is on duty at the information desk during open hours to answer questions and sell publications.
MUSEUM INTERPRETIVE SERVICES	The park ranger naturalist on duty gives short museum talks on the history of the park, the Park Service and the development of the National Park system to bus parties, special groups and whenever there are enough visitors assembled to provide an audience.
EVENING CAMPFIRE PROGRAM	There is an informal campfire program at the campfire circle each evening from 8:00 to 9:00 p.m.

OLD FAITHFUL

MUSEUM HOURS	8:00 a.m. to 10:00 p.m.
INFORMATION DESK SERVICE	There is a man on duty at the information desk during museum hours. He answers questions and sells literature on the national parks.
GUIDED WALKS	NATURE WALK - exploring Geyser Hill and the forest trail to Observation Point. The trip begins at Old Faithful cone, leaves at 8:00 a.m. and returns to Old Faithful Geyser cone at 11:00 a.m. GEYSER HILL WALKS - exploring Geyser Hill. Route of travel is over Geyser Hill, down to Lion group and return to Old Faithful. Trips after each eruption of Old Faithful Geyser from 8:00 a.m. to 7:00 p.m. NOTICE: All walks begin from Old Faithful Geyser cone and announcements of these walks will be made in the Old Faithful museum by the naturalist at the information desk. The Naturalist conducting them will announce them at Old Faithful cone talk.
GEYSER TALKS	CONE TALKS - The naturalist conducting the walk from Old Faithful cone will present short 10-15 minute talks preceding each daylight eruption of this geyser.

FIELD TALKS - at every opportunity park ranger naturalists give geyser talks to the assembled crowds at the eruptions of major geysers.

YSER OBSERVATIONS — Park ranger naturalists stationed at Old Faithful will be expected to make geyser observations daily and post major geyser eruption times in the Old Faithful museum.

EIF-GUIDING TRAIL — GENTIAN SELF-GUIDING NATURE TRAIL - begins at the Firehole River bridge crossing and parallels Geyser Hill for a distance of 1/2 mile, coming out near Beach Spring. Travel can be either direction on this trail. Labeling of this trail is done by the naturalist staff at Old Faithful.

VENING TALKS PROGRAM — CAMPFIRE PROGRAM - Held in the Old Faithful amphitheater from 8:00 to 9:00 p.m. This is a short campfire talk illustrated with colored slides or motion pictures.

OLD FAITHFUL LODGE TALK - Each evening except on Sundays there will be an illustrated talk given in the Old Faithful Lodge Recreation hall from 7:30 to 8:30 p.m.

LLUMINATED ERUPTION F OLD FAITHFUL — The first eruption of Old Faithful occurring after 9:00 p.m. will be illuminated. Prior to the illuminated eruption a short geyser talk will be given by a park ranger naturalist.

WEST THUMB

UIDED WALKS — NATURE WALK - begins at the West Thumb ranger station and travels over the footpath of the thermal area, and then along the forest paths, up the lake shore to Occasional Geyser and return. The walk begins at 8:15 a.m. and returns by 11:15 a.m.

GEYSER BASIN WALKS - regular guided trips are made through the West Thumb geyser basin at the time of the arrival of the scheduled bus tours. Walks will be conducted by the park ranger naturalist on duty whenever he can assemble a party.

EYSER BASIN INFORMA-ION & PROTECTION ATROL — There is a park ranger naturalist on duty in the geyser basin from 8:00 a.m. to 6:00 p.m. He will conduct the geyser basin walks and the balance of the time he will be on information duty and basin patrol.

VENING CAMPFIRE ROGRAM — Held in the West Thumb campground amphitheater from 8:00 to 9:00 p.m. This will be a short campfire talk illustrated with colored slides or motion pictures.

FISHING BRIDGE

MUSEUM HOURS	8:00 a.m. to 8:00 p.m. Closed 8:00 p.m. to 9:00 p.m. Open 9:00 p.m. to 10:00 p.m.
INFORMATION DESK SERVICE	There is a man on duty at the information desk during museum hours. He will answer questions and sell literature on the national parks.
MUSEUM INTERPRETIVE SERVICE	The park ranger naturalist on desk duty gives museum talks whenever enough visitors who are interested in obtaining interpretive information are present to call them together. Museum talks are given each time bus parties arrive at the museum.
GUIDED WALKS	NATURE WALK - begins at the Fishing Bridge museum, explores the lake shore area and explores the swamp near Fishing Bridge. The walk begins at 8:30 a.m. and should return to the museum by 11:30. On the trip people should learn the biology of the Lake area, geology of the Lake area and should have an opportunity to see plant life forms and an interesting array of animals. NATURE WALK AT LAKE - starts at the Lake Lodge at 9:00 a.m. and returns by 11:00 a.m. The route to be followed is the old Elephant Back trail.
AUTO CARAVAN	An auto caravan of persons driving their own cars and led on the trip by a park ranger naturalist leaves Fishing Bridge museum daily at 2:00 p.m. and returns by 4:00 p.m. This trip takes park visitors to the Lake fish hatchery and as far as the Natural Bridge. After the fish hatchery closes in the late season trips go to Lake Butte.
EVENING TALKS	EVENING CAMPFIRE PROGRAM - held in the Fishing Bridge amphitheater from 8:00 to 9:00 p.m. It is a short campfire talk illustrated with colored slides or motion pictures. LAKE LODGE TALK - held in the Lake Lodge recreation hall from 7:30 to 8:30 p.m. except on Sundays. It is a short talk illustrated with colored slides or motion pictures.

CANYON

GUIDED WALKS	NORTH RIM TRIPS - route followed will be one of the park ranger naturalist's choice, and may be any one of the following: exploring the Canyon-Cascade Creek trail, the guided trip down Red Rock trail or the bear cave-camp-

ground nature trail. All trips begin at the Canyon ranger station at 8:30 a.m. and return to this point by 11:30 a.m.

SOUTH RIM TRIP - This is the adventurous and thrilling hike down Uncle Tom's trail to the canyon bottom at the base of the Lower Falls. This walk starts at Canyon Lodge at 8:30 a.m. and returns by 11:30 a.m.

INTERPRETIVE SERVICE AT OBSERVATION POINTS

Seasonal park ranger naturalists are stationed daily at Grand View or Lookout Point and at Artist Point from 1:30 p.m. to 5:00 p.m. These men provide interpretation, information and help to park visitors. They present short talks which interpret the Canyon's scenic grandeur and geology to any and all groups that can be assembled. In addition, they serve the protective function of looking after the public's safety.

EVENING TALKS

CANYON EVENING CAMPFIRE PROGRAM - this program will be conducted in the Canyon campground amphitheater from 8:00 to 9:00 p.m. It is a short campfire talk illustrated with colored slides or motion pictures.

TOWER FALL

GUIDED WALKS

Nature walk exploring Lost Creek is a naturalist guided nature trail hike which leaves the lodge at Camp Roosevelt daily at 8:45 a.m. and returns by 11:15 a.m. This is one of the outstanding trails in the park for flowers, birds, mammals and scenic landscapes.

INTERPRETIVE SERVICE AT OBSERVATION POINT

The park ranger naturalist stationed at Tower Fall serves the park visitors at the Tower Fall observation platform from 1:30 p.m. to 5:00 p.m. He meets the people and provides them with an interpretation of the landscape and information on Yellowstone.

SELF-GUIDING TRAIL

The Lost Falls self-guiding nature trail winds up Lost Creek to Lost Falls. The nature labels along this trail will be maintained by the park ranger naturalist stationed at Tower Fall.

EVENING PROGRAM

Each evening in the lobby of Camp Roosevelt Lodge at 8:15 p.m. there will be a short talk, illustrated with colored slides or motion pictures.

The scheduled interpretive activities for any station are not to be changed until the proposed changes have been reviewed and approved by the Chief Park Naturalist. The program as outlined here should be adequate to meet the

interpretive needs of the public during the 1954 season. If this program can be improved by changes in scheduled activities, or by the addition of activities your suggestions will be welcomed in the Chief Park Naturalist's office.

REFER TO THIS SCHEDULE WHEN YOU ARE IN DOUBT AS TO THE TIME AND TYPE OF ACTIVITIES THAT ARE BEING CONDUCTED AT THE VARIOUS INTERPRETIVE STATIONS THROUGHOUT THE PARK.

David de L. Condon
Chief Park Naturalist

Yellowstone National Park
Yellowstone Park, Wyoming

[illegible]
July - 1954

General

The interpretative program as planned for the 1954 season was in full operation before July 4. Large numbers of people participated in the activities and weather conditions throughout the month were ideal for public enjoyment of Yellowstone's natural resources.

Administration

The activities of the Naturalist Division were directed by Chief Park Naturalist [illegible] Naturalists [illegible] assuming administrative responsibilities for field stations which were assigned to them. Park Naturalists GS-5 assigned to field stations handled certain administrative responsibilities at their field stations. Park Naturalist [illegible] served [illegible] Chief Park Naturalist from July 24 through the balance of [illegible] Chief Park Naturalist.

Special Activities and Conferences

Mr. [illegible], [illegible] bear and beaver [illegible], left Yellowstone on July [illegible] to [illegible], Montana, to [illegible] of birds [illegible].

Mr. [illegible], interior decorator [illegible] Lodge at Moran, [illegible] Chief Park Naturalist's [illegible] seeking ideas and information which might be helpful [illegible] interior decorating motive [illegible] planning of the structures which [illegible] built at Moran. Several suggestions were made and he was [illegible] Yellowstone Park historical library collection and some of the [illegible] used in this historical collection. It was suggested [illegible] there should be a Moran Room which would provide a view of Mt. Moran and the room itself display Moran art creations.

Religious Services and Chapel Use

The Yellowstone National Park Chapel was used during July for religious services at the scheduled hours by the Student Ministry, Latter-Day Saints, and Roman Catholics. The chapel was also used by

the Student Ministry for choir practice conducted for children and adult groups. A Bible School for pre-school, elementary school, and high school pupils was sponsored and financed by the local Sunday School at the Chapel from July 12th through the 23rd. Student Minister William Manning was in charge of instruction for the older group and local women and high school girls took charge of the youngsters.

On July 21, the religious services bulletin board, which was purchased by Ben Arnold shortly before his death in memory of his wife and later rededicated by his son in memory of both of his parents, was received. This bulletin board is going to be installed some time during August at the Yellowstone National Park Chapel.

In-Service Training

Considerable time during the month was spent in orientation training for the six new park ranger naturalists. These were:

	E.O.D.
Hugh A. Gregory	July 9
Donald R. Larson	July 9
William F. McGuinness	July 23
Harry V. Truson	July 27
B. Jay Anscher	July 28
Theodore A. Stamas	July 29

Besides the routine indoctrination carried on for each of these men at the various stations, the permanent naturalist staff conducted the following special in-service training for some of the new men. William McGuinness accompanied the Chief Park Naturalist on a trip to Old Faithful on July 22 in order to acquaint him with that side of the park. Park Naturalist Elmore gave him an in-service training trip on July 23, at which time he was taken over Dunraven Pass to Canyon, Fishing Bridge, and West Thumb where they attended the campfire program, returning via Old Faithful.

Park Naturalist Larson drove to Fishing Bridge on July 28 to pick up Theodore Stamas who was reporting in for duty. On the return trip Stamas was given information on the features en route to Mammoth. He accompanied Park Naturalist Elmore to Roosevelt Lodge for the evening program of July 30.

All of the above in-service training was conducted in connection with other official trips into the park.

In-service training sessions were held for all seasonal naturalists at Mammoth and Old Faithful on the nights of July 13 and 14. These sessions were led by the Chief Park Naturalist with both permanent Park Naturalists participating.

Several memoranda on means of improving the interpretive program were mimeographed and distributed to interpretive division personnel as in-service training aids.

The interpretive division mimeographed and distributed five issues of "Yellowstone's Weekly News" during the month.

The 16mm projection equipment and screens at Old Faithful, Lake, and Canyon were used for fire training.

Interpretive Services

The sign program in thermal areas alluded to last month was continued in July, during which period many more of the concrete base informational signs were properly placed by a foreman and crew from the Engineering Division with instructions from the Chief Park Naturalist. The three self-guiding trails were kept current as to signs by men stationed in each area. It is apparent that these trails are being used rather extensively by the visitors.

The public address units mentioned in June have served to increase the ease and scope of interpretation. It is apparent that batteries in the portable units will have to be replaced at least once during each season. Thus far it has been possible to place but three of the four larger units in use at the evening programs. Inability on the part of the carpenters to find time to build suitable housing has rendered it impossible to place one of the sets in operation at Mammoth. There seems to be a general feeling of accord on the part of the Park Ranger Naturalists that this equipment is very helpful to them in "putting the program across" to the listeners.

Interpretive services were in full operation at all stations throughout July, with thirty seasonal men on duty during most of the period; two additional men began duty on the 9th and four more were signed up between the 23rd and 29th. Park Ranger Naturalist George Gardner terminated his employment as of the 28th for personal reasons.

There being no relief man assigned to duty at Roosevelt Lodge in July, Park Naturalists Elmore and Watson gave illustrated interpretive talks there on Saturday and Sunday evenings respectively throughout the month. The management at Roosevelt is highly in favor of the interpretive program provided at the Lodge each evening. Registrations have been somewhat under last year at Roosevelt, and attendance at interpretive programs has thus been correspondingly less.

A new guide for use on the wildlife caravan in Mammoth was multilithed and distributed to persons participating in the caravan.

Park Naturalist Matson spent the entire day of July 24 conducting the blind group from Bozeman, Montana on their annual trip to the Park. Mr. Matson served as the eyes of this party and helped them to see Yellowstone and enjoy its unusual objects of interest and beauty.

Museum Activities and Exhibits

All museums were open all month. Work was temporarily discontinued by the carpenters on the new information desk at Old Faithful due to pressure of other work, so at month's end the new desk was still inoperative.

New cocoa door mats were supplied the museums at Mammoth, Madison, Old Faithful and Fishing Bridge, and new rubber matting was installed over the most traveled routes in the Mammoth Museum in order to help preserve the soft rubber tile that is not taking the wear of the many tourists as well as was expected.

The information desk and signs at the Norris Museum were repainted, varnished, and waxed by seasonal personnel at that point.

On the 14th of the month all of the new fixtures were received for the revision of the lighting at the Old Faithful Museum and reception room. Inasmuch as there will be a delay of at least another month before the exhibits are sent from Washington, the installation of the lighting fixtures will be held in abeyance until the new exhibits are received and installed.

During the month the exhibit plan for exhibit number 15 "History of Old Faithful Area" was completed and sent to the Regional Director for forwarding to the Washington Office. Comments were received from the Regional Historian concerning this exhibit, especially the "first" discovery of Old Faithful.

The following articles were accessioned for the Yellowstone National Park collections during the month:

1. An Indian thumb scraper
2. An Indian drill point
3. One arrowpoint (broken) and 4 chips
4. One arrowpoint
5. Several newspaper mats of Yellowstone subjects
6. A letter from Governor (of the Territory of Montana) concerning game management in Yellowstone National Park. (Governor John Schuyler Crosby)
7. Two old topographic maps of the park.
8. Two letters written by Theodore Roosevelt to the Park Superintendent S. B. M. Young (One concerning mountain lions.)
9. One broken Indian arrowpoint

Park Ranger Naturalist Davis continued the work of identifying herbarium specimens and also continued to maintain the fresh flower display at the Mammoth Museum.

A bronze plaque was received and installed on the flower stand which reads as follows:

"1901 - MARGUERITE LINDSLEY ARNOLD - 1952
RANGER NATURALIST AND PARK RANGER
YELLOWSTONE NATIONAL PARK
ORIGINATOR OF
YELLOWSTONE NATIVE WILDFLOWER EXHIBIT"

Park Ranger Naturalist Murphy, during the month, shifted all of the study skin collections into the new metal storage cases, and a project of sorting, classifying, and organizing the animal skulls in the museum collections was started. These are being placed in the old study skin cases as time permits.

Personnel

Chief Park Naturalist Condon was on duty all month except for annual leave taken beginning July 26 through the balance of the month. Park Naturalist Watson was on duty all month. Park Naturalist Elmore was on duty all month. Clerk-Stenographer Mary Bohn was on duty all month except for one day sick leave taken July 6.

Several additional Park Ranger Naturalists were employed during the month with the following entering on duty: Hugh L. Kingery, Donald W. Larson, William T. McGuinness, Harry V. Truman, B. Jay Wencher, and Theodore A. Stamas.

Chief Park Naturalist Condon was gone on annual leave due to the death of his father Leslie Guy Condon who died the evening of July [illegible] in Los Angeles, California.

Research and Observation

During the month the following memoranda were issued:

Memorandum No. 3 to all Park Naturalists and Park Ranger Naturalists. It contained the annual wildlife census for Yellowstone Park for 1953 and was issued in order to better help answer the visitors' questions concerning wildlife and also in order that accurate information could be dispensed to the visitor on estimated animal populations.

Memorandum No. 7 to all Park Naturalists and Park Ranger Naturalists, which contained information concerning the animal counts in key areas of the past together with form for recording information. The form for the collection and presentation of information on animal observations was prepared by Biologist Kittrey.

Grizzly bear have been observed at the Mammoth dump on several occasions during the month of July. On July 2, three of these animals were observed at about 5:00 p.m. Further grizzly bear observations have been made on the Trash Creek Dump and on July 8, 24 grizzly bear were seen; three females with two cubs each and two females with yearling cubs. The other bears were adults. On July 12, only six grizzly bear were observed at the dump and four in the distance but these animals would not come into the area. On the 20th, eleven grizzly bear were observed at Trout Creek and all of these animals came into the dump and were photographed. The composition of this group was one female with two yearling cubs, one female with two this-year cubs, one female with three 2-year olds, and one large male making a total of eleven.

On the July 13 bird banding expedition to the Molly Islands, two arrowheads were found on the sandy island and one arrowhead was found on the Trail Creek boat dock near the store. On this same trip a large bull moose was observed browsing on willows on Stevenson Island.

On July 13, three one-gallon samples of water were collected from the Mammoth Hot Spring Terraces and sent to Dr. Carl E. Georgi of the University of Nebraska. The samples were taken as follows: one gallon from the main spring on the Main Terraces and two gallons from the Cavern Spring on the Lower Terraces. Dr. Georgi and collaborators with him are making an intensive study of thermophilic bacteria.

On the 14th, five gallons of water samples were collected from the Gibbon River, Minute Geyser, unnamed spring near Hurricane Vent, Vixen Geyser, the Firehole River, Punch Bowl Spring, Ojo Caliente Spring, and Minerva Spring. These water samples were sent on July 16 to Dr. Harmon Craig of the University of Chicago for use in making tritium analysis.

During the month a detailed presentation was prepared on a proposal for a research program to be conducted by Park Naturalist George D. Marler on the geyser basins along the Firehole River. This program of research was submitted to Mr. Horace M. Albright for presentation to the Resources of the Future, Incorporated in hopes they would make available a research grant to finance this study. At the month's close, no reply was received on this proposal.

On July 30, a visit to the Trout Creek dump in Hayden Valley found hundreds of sea gulls concentrated in this area and observation of this large number of birds revealed there were several adult birds with bands which probably had been put there at previous bird banding operations on Molly Islands.

Park Naturalist Elmore was fortunate in being on hand to see a gopher snake swallow a ground squirrel. He has recorded this incident for a future issue of Yellowstone Nature Notes. A complete photographic record was made of the engulfing process.

The following collecting permits were issued during July by the Superintendent:

	Institution	Specimens
Francis [illegible] Ward, Jr.	Carnegie Institution	Volcanic rocks
Theodore [illegible]. Judy	West Virginia University	Conifers and [illegible]
Richard [illegible]. Grant	University of Texas	Fossils and rocks
Jane [illegible]. Bailey	Forest Service	Plants
David W. Cook	Wayne University	Water Mites

On the 1[illegible]th of the month, the annual bird banding part visited the Molly Islands to band nesting birds. The group, headed by the Chief Park Naturalist, also included Park Naturalists Shore and Replogle; Mrs. Replogle; Park Ranger Naturalists Murphy, Good, and [illegible]ler; District Ranger Gilbert; Park Ranger Rapp; Oliver Cope, Chief, Rocky Mountain Investigations and Fisheries Biologists, Orville Ball and Martin Laakso, Fish and Wildlife Service. Others who made the trip were: Major and Mrs. [illegible] T. Wilson, Mr. and Mrs. Lester Mitchell, Marianne, Wilson and Lorna Condon, Photographer Bert Brown of Haynes Inc., Free-Lance Photographer Jack Richard, and Jerry Petersen.

A total of 349 pelicans, 394 seagulls, and 1 cormorant was banded and 7 old bands were recovered together with 1[illegible] fish tags. A detailed report on the banding activities will be sent to the Fish and Wildlife Service.

While on the Islands, the "e" in the word "prohibited" was changed to "i" on both sides of each sign.

On July [illegible], the Chief Park Naturalist made a trip to the vicinity of Fishing Bridge in order to photograph a young bald eagle in the nest and this bird was banded.

At month's end, Dr. Erling Dorf of Princeton University, a collaborator with the National Park Service, who conducted research geology on fossil plants, left the park to return to the University. He plans to return to the park for a full summer's work next year. Dr. Dorf did not elaborate on his future plans, but it is our general understanding that he intends to return to the Park with a field party for a full summer of geological investigation in 1955.

The matter of the death of trumpeter swan cygnets on so-called "Madison Junction Lake" has been of interest for several years. This year early in July the nesting pair there had six young which were observed and photographed rather continuously by the Haynes brothers, camp employees at Madison campground, who have made every possible effort not to unduly molest this family group. On July 23rd, these men reported that only four cygnets were left and on the 27th they picked up one of the dead swan in the reeds of the lake shore. Park Naturalist Watson turned this dead cygnet

over to Park Naturalist Kittams on the 24th in a rather advanced state of deterioration. Mr. Kittams reports that he was unable to determine the cause of death but feels certain that it was not from a violent cause, such as attack by another bird or a mammal.

A rather large black bear which frequented the road toward Norris from Mammoth was trapped late in the month after having rather severely bitten one or more persons. This animal would have been a valuable specimen for some school or other public institution, and effort was made to provide for taking care of it after execution along the old Tower Road. This effort, however, was unsuccessful.

Library

Mrs. Lucile [illegible]agner continued to function as Librarian for the Yellowstone Library.

During the month, the following books, magazines, and pamphlets were in circulation, on indefinite loan, or received:

Books received in July	38
Magazines received	25
Pamphlets received	23
Books in circulation	339
Pamphlets & magazines in circulation	16
Books on indefinite loan (included in book circulation)	67

Natural History Association

Mrs. [illegible] as clerk of the Association was on duty a total of [illegible] hours in July, during which time she took care of the routine association business relative to book sales.

In general, resale book stocks held up well. Stocks of three items, however, Chittenden, Exploring our National Parks, and the topographic maps, because of unavailability from the publishers, have almost run out. The Handbook of Rocks and Minerals proved to be a fair seller and it was thus necessary to order another 50 copies late in the month. The entire remaining stock of Plants of Yellowstone is now at the field stations and it appears that this title will be entirely sold out by the end of the season.

In spite of some apparent sales resistance on the part of the public, total book sales by the Association were only about $600.00 under the same period in 1953. Bookroom sales at headquarters were high.

Total book sales by the Association during July were $6,33[illegible].60. The following tabulation compares the sales at the various stations during July 1954 with those made at the same stations during a comparable period in 1953:

Station	July 1954 Sales	July 1953 Sales	Difference	% of Increase or Decrease
Bookroom	$ 613.[illegible]5	$ 221.00	392.6[illegible] inc.	64% Inc.
Mammoth	1,[illegible].35	1,320.00	$ 52.55 dec.	4 % Decrease
Madison	1[illegible].40	126.95	[illegible].45 inc.	52.3 % Increase
Old Faithful	3,[illegible]74.[illegible]5	4,453.55	77[illegible].00 dec.	17.5 % Decrease
Fishing Bridge	5[illegible].35	833.55	245.00 dec.	29.4 % Decrease
	$6,33[illegible].[illegible]0	$6,955.85		

In spite of efforts to interest our men in pushing sales of the paper-bound The National Parks by Tilden, certainly no records have been set thus far. 200 copies have been sold from museum desks out of the original stock of 500.

During the latter part of July the program to publish the May-June and July-August issues of Yellowstone Nature Notes was initiated. By month end, the former issue was nearly ready for distribution and the material for the latter was in "dummy" form ready for editing. Both issues will be distributed together early in August.

The Association added as a book sales item to its stock A Field Guide to Rocks and Minerals by Frederick H. Pough. This publication was added at the request of a number of employees who were desirous of obtaining a copy and because there were a large number of requests for it at the information desk.

The Association sent out four large reels of 16mm motion pictures to the Reeves Soundcraft Corporation for the placement of magnetic sound striping on the film. These films are expected back early in August.

During July the Association purchased one dozen batteries for use in the portable Portapage public address units which are being used on guided trips.

Equipment and Supplies

A large number of small hand tools and a bookcase were obtained from the storehouse for the museum on July 14. New radio tubes were obtained and

placed in the portable public address units. A public address unit was taken to Norris Museum where it is being used on the guided trips. Three electric clocks were obtained. Ours were distributed as follows: one to Fishing Bridge and two to the Headquarters Museum. Two wall trees were obtained and one was sent to Fishing Bridge and Old Faithful.

Photography and Visual Aids

Pictures as follows were sent out during July: Two Indian pictures to the Director's Office on the 1st; several 8x10s to Bill Passman of Detroit showing winter activities of Rangers on the 15th; fifteen 8x10s to Horace Albright on the 30th relative to the Rockefeller project to cleanup the park roadsides during the 1920s and 1930s.

Duplicates from eleven originals, mostly of small animals (mounted), together with the originals were received from Meston on the 14th. In four instances duplication was judged inferior, and these originals were returned to Meston for redoing. Most of the work was relatively satisfactory, and the animal [illegible] provided and immediately sent into the field can be regarded as worthwhile additions to the field sets. Considerable work was done on the 11th, 17th, and 25th to select suitable slides for illustrating talks at Roosevelt Lodge on the evenings of those days.

Less than one full day was spent in the dark room. During this period 18 4x5 films were processed, new batches of D-76 and Hypo were mixed, 30 8x10 glossy enlargements were made, and 17 film holders were reloaded. Thirty negatives were killed and given to Mrs. [illegible] for numbering and recording. Film exposed during July: Black and white 4x5, 1[illegible] exposures; K-135 one roll ([illegible] exposures.)

Proposed Outline of Work for August

1. Put sound track on 16mm motion pictures which are expected back in August.

2. Work on editing of new movies.

3. Work on interpretive development outline.

4. Work on information station exhibits and exhibit plans.

5. Audit and direct interpretive program.

6. Work on exhibits for the Old Faithful Museum.

7. Work up the September-October Nature notes.

8. Prepare plans for the termination of seasonal activities.

9. Work on division budget estimates.

10. Routine work of the division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Copy to: Region Two
Director

Original to: Superintendent

Museum
Condon

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
August 1954

General

The weather was very good during the month of August and large numbers of people visited the park for the purpose of enjoying its scenery and other inspirational resources. Travel for the month was about .8% above August 1953. The people participated generously in the programs offered by the Interpretive Division and large crouds attended the guided trips, evening talks and the museums. Especially large crowds concentrated in the Old Faithful area.

Administration

The activities of the Naturalist Division were directed by Park Naturalist Watson until August 7 when Chief Park Naturalist Condon returned to assume his responsibilities as head of the Division. Park Naturalists Watson and Elmore directed certain phases of the activities on the sides of the park which had been assigned to them as their responsibility. The senior naturalists at the larger field stations assumed certain administrative responsibilities.

Special Activities and Conferences

Mr. Philip H. King, Assistant to the Director, was in the Chief Park Naturalist's office on August 4 and went over a number of division activities and problems with Acting Chief Park Naturalist Watson.

Assistant Director Hillory A. Tolson and Administrative Officer Stanley Joseph from Region Two were in the Chief Park Naturalist's office on the 9th and at that time discussed some problems with Mr. Condon relative to the Interpretive Division work.

The population census for members of the Naturalist Division was made for the period August 9, 11 and 15 and was turned in as a special report to District Ranger Grimm on the 16th.

Mr. Andrew Richards, a photographer from Spokane, Washington, was in Yellowstone a good part of the month of August making colored motion pictures of Yellowstone natural resources. Mr. Richards had a special movie entitled "The Seventh Wonder of the World" or "Grand Coulee Dam." This motion picture was presented to members of the Mammoth community at the canteen building on the night of August 12. There was a large crowd in attendance.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Arthur Woodward posing in garb of fur trader-trapper era.
August 14, 1954
Photo - Condon

On the 17th Chief Park Naturalist Condon made an inspection trip with Assistant Superintendent Hamilton to West Yellowstone for the purpose of examining the development of the information station and continued on to the geyser basins along the Firehole River for the pupose of inspecting changes that need to be made in walkways and other facilities in the geyser basins. A special note was made of changes to be made in the walk at Midway Geyser Basin where a man was recently burned near Opal Pool.

A good deal of time was spent during the month on program planning to fit the division activities and personnal into the finances which will be available for division operations. On August 20 the Chief Park Naturalist was advised that the division's allotment for the 1955 fiscal year would be $60,534.

Mr. Harry J. Deeter, General Foreman from Death Valley, was in the Chief Park Naturalist's office on the 20th and visited. Mr. Deeter was formerly employed in Rocky Mountain National Park and became acquainted with some of the personnel here at that time.

Mr. Arthur Woodward stopped in at the headquarters museum on August 14 to visit with Park Naturalist Francis Elmore. Since Mr. Woodward is very much interested in western history, he had with him a typical garb of the fur trapper-trader era and other accoutrements. He was induced to dress up in this garb and pose for pictures, some of which are used in this report. It is planned to utilize the Kodaslides taken of Mr. Woodward in his various garb for use in our campfire talks on the fur trapper-trader era and the early exploration period of Yellowstone.

On August 24 Mr. J. V. Howell, geologist and independent oil operator, stopped in the Chief Park Naturalist's office for a lengthy visit. Mr. Howell in the past has corresponded with us in Yellowstone and has obtained from us copies of Hayden's materials which we had in our collection. Mr. Howell has specialized in collecting all of the Hayden material that he can find and has an outstanding array of this material. He now has working with him Mr. Fritiof Fryxell who is going to work up all of Mr. Howell's collection into a presentation which will be of great historical value, especially with respect to the historical development of the west and its exploration.

Mr. Hugh Wilmar, photographer for Walt Disney Pictures who has been up at Moise photographing bison, stopped by Yellowstone on August 31 to pay his respects and thank us again for the assistance given him.

Religious Services and Chapel Use

The regular religious services were conducted in the Yellowstone National Park Chapel each Sunday as set up in the schedule for services for the 1954 season. The Park County Ministerial Association concluded their services which they were conducting in Yellowstone on the 29th. Other services conducted by other denominational groups will continue through September 5 and some through September 12.

Arthur Woodward loading flint lock while wearing trapper garb.
August 14, 1954
Photo - Condon

On the evening of August 13 the local choral group under the direction of the student ministerial organization presented the Messiah in the Yellowstone National Park Chapel. A choral group of 90 or more voices sang, soloists participated and there was a large number of persons present to enjoy the program.

The Rev. Warren W. Ost, who is in charge of the student ministry in the national parks which is sponsored by the National Council of Churches of Christ in the United States, checked into Yellowstone on August 29 and will be in the park until sometime early in September.

On August 29 the Rev. Warren Ost baptized Thomas Wayne Rapp, the son of Mr. and Mrs. Joseph Rapp, following the regular Sunday service.

In-Service Training

A good deal of time was devoted by Park Naturalists Watson and Elmore to giving orientation and training to Park Ranger Naturalists Clyde Lussier, Elmer Andersen and Robert K. Wolfer.

The weekly issue of the Yellowstone Park News Letter was assembled and distributed by the Naturalist Division each Thursday during the month.

Interpretive Services

The full program of interpretive services as scheduled for the 1954 travel season was continued through the month of August with all activities going on at all stations, with the exception of Camp Roosevelt where the program terminated with the closing of the lodge on August 30.

Chief Park Naturalist Condon audited programs at Mammoth on the 13th, Old Faithful on the 14th, Biologist Kittams program on the 16th, Old Faithful on the 23rd and Fishing Bridge on the 25th. Park Naturalist Watson audited programs at Mammoth on the 1st, Mammoth on the 2nd, Mammoth on the 4th, Old Faithful on the 9th, Tower Fall on the 11th, Mammoth on the 15th, Mammoth on the 16th, Madison on the 17th, Canyon on the 18th, Madison on the 23rd, Tower Fall on the 24th and Old Faithful on the 30th. Park Naturalist Elmore audited four evening programs during the month.

Park Naturalist Elmore presented the evening campfire talks four times during the month. Two of these were at Canyon, one at Lake and one at Camp Roosevelt. Park Naturalist Watson gave two talks during the month, one at Mammoth and one at Tower Fall. Park Naturalist Condon gave two talks during the month, one at Old Faithful and one at Tower Fall.

Park Naturalist Elmore served as relief man at Madison Junction on August 31 after Park Ranger Naturalist Merriman had terminated his services.

Museum Activities and Exhibits

All museums were open during the month for the scheduled hours per day which were set up for the 1954 travel season. Hundreds of people availed themselves of the opportunity to study and benefit from the exhibits and displays in these museums, with capacity crowds visiting the Madison and Old Faithful museums and with record attendance being recorded at Norris and Fishing Bridge.

The Upper Geyser Basin relief map in the exhibit room at Old Faithful was refinished during the month by Park Ranger Naturalist Hennessy and presents a more attractive appearance than it has for some time. The repairs to the Old Faithful museum neared completion at the end of the month of August. The relief map was moved to a new location and the old information desk was torn out, the floor repaired and one set of windows completely filled in. The work which remains to be done is the installation of lighting fixtures and the decorating of the interior and exterior of the building and the courtyard.

Considerable correspondence was carried on concerning the loan of Moran materials for exhibit in the City Art Museum at St. Louis. It was planned that before long these pictures would be packed and shipped to them for exhibit purpose.

A set of color samples showing the types of paint used for interior decoration at the Old Faithful museum was sent to the Director's office via the Regional office.

Four Indian arrowheads which were turned in by a park visitor to the information desk at Mammoth were sent to the Region Four office since the arrowpoints were collected in California and are not applicable to this area.

One more exhibit plan for the Old Faithful museum was submitted to the Director's office through the Regional office. This exhibit was entitled Old Faithful Facts and is to be exhibit No. 16 in the new group of exhibits being prepared for this museum.

Personnel

Chief Park Naturalist Condon returned from emergency leave to duty on August 8 and was on duty the balance of the month.

The termination schedule for personnel during the month of August was as follows:

Arthur Nash	August 7
Simon Simonian	August 19
Paul Herring	August 21
Ray J. Davis	August 22
Thad Stevens	August 24

Wayne Replogle	August 24
Robert Freer	August 25
Herrold Assmussen	August 26
Herbert T. Lystrup	August 27
Wallace Hennessy	August 27
Walter Herriman	August 28
Alma Teuscher	August 28

Mr. Clyde Lussier was assigned to Custer Battlefield National Monument August 31 and terminated his services here August 30. Mr. Lussier was to enter on duty at Custer Battlefield on the 2nd and will be on assignment there from Yellowstone until he terminates his work period at Custer.

Park Naturalist Elmore was on duty all month. Park Naturalist Watson was on duty all month. Mrs. Mary Rohn, clerk-stenographer, took two hours annual leave on August 13 and terminated her services on August 20. Mrs. Bettilee Hallin entered on duty as clerk-stenographer on August 23.

Mr. Clyde Lussier entered on duty August 2, Dr. Merrill D. Beal on August 7, Robert K. Wolfer on August 6 and Elmer Andersen on August 11.

A great deal of time was devoted to the preparation of tours of duty for personnel, the submission of timeslips and in setting up work schedules for each station.

Research and Observation

A number of field trips were made by members of the division's permanent staff for the purpose of auditing programs and making field observations. On August 12 Chief Park Naturalist Condon observed a badger crossing the highway near Occasional Geyser in the West Thumb Geyser Basin area.

On a trip out the Northeast entrance on August 15 a large number of mule deer and moose were observed along the upper reaches of Clark's Fork beyond Cooke, Montana.

Dr. Merrill D. Beal has been doing considerable work on historical material in the Yellowstone Park research library and examining accessioned materials which we have in our archives. Park Naturalist Wayne Replogle devoted considerable time to further work on the development of the Bannock Indian trail story and it is planned by him to have this manuscript in completed form for publication early in October.

Dr. Ralph Scorah of the University of Missouri arrived in the park on August 16 and stayed through the 21st. Dr. Scorah has been conducting research in the effect of metals on the boiling of water and has been making his studies at Surprise Pool where there is superheated water to work with. He tested 21 different materials to show their influence on water boiling. Detailed observations were made of water temperatures and colored motion pictures were taken to show the physical effects of these elements when they were immersed in the superheated water of Surprise Pool.

Marvin Coldwell	August 7
Robert Tyson	August 7
Gerald Lawrence	August 14
Herbert T. Larkin	August 17
Phillip Dunning	August 17
Gordon Andrews	August 24
Alan Thompson	August 24

Mr. Gordon Lawrence was assigned to Station Installation Service, Honeywell Regulator Co. and conducted his exercises from August 14. Mr. Lawrence was to return on duty at Station Installation on the 3rd and will be on duty shortly thereafter. Mr. Lawrence will be transferred to the Pacific Coast.

Mr. Thompson's job Tyson was on duty all week. Mr. Thompson's physical was to be duty all week. Mr. Tyson, Mr. Coldwell, Mr. Larkin and Mr. Dunning were on duty on August 17 and transferred on August 24. Mr. Dunning was to report to duty on August 24.

Mr. Larkin failed to report on duty August 6, on account of illness and on August 7, August 8, failed to report for duty. Mr. Larkin was dismissed.

A period of time was devoted to the presentation of reports of duty for personnel, the assignment of instructors and the setting up of schedules for each station.

Equipment and Instruments

A number of field trips were made by members of the Division's personnel which for the purpose of auditing equipment and setting up observations. On August 21 Chief Lane accompanied Gordon Lawrence on a trip to Washington, New Jersey, Connecticut and New York. Some various stations.

On a trip made the Seattle-Tacoma area, which is a large number of delta dust boxes were observed along the upper reaches of Columbia River, Puyallup Valley, Washington.

Mr. Harold G. Hal has been later more [illegible] with [illegible] material in the California Fuel research [illegible] [illegible] [illegible]

Dr. Francis Boyd of the Carnegie Institute was in the park all month working on his geological problem with respect to the rhyolite flows and the welded tuffs. He has completed his field work on this stratigraphic study. Dr. Boyd left Yellowstone at the end of the month.

Three collections of typical Yellowstone rocks were assembled and sent out during August. One each went to Miss Genevieve Moran, Menlo Park, California; the Hot Springs Library, Hot Springs, South Dakota; and Mrs. Pearl McLoughry, a teacher in the school at Portage la Prairie, Manitoba, Canada.

The park rangers at West Yellowstone have had a pet badger for some time. This animal has proved to be very friendly and interesting, but at the months close reports are that it has vanished. It was hoped that we would be able to obtain some good photographs of this particular specimen since we do not have any in our Yellowstone Park collection.

Two trips were made during the month to the Trout Creek and upper Hayden Valley area by Chief Park Naturalist Condon. On August 18 three herds of bison were observed in the upper reaches of the valley. There was 140 head counted in one herd, 24 head in another and one herd of an undetermined number observed near the Violet Springs area. On this trip nine grizzly bear were observed at the Trout Creek dump. One of these was a cub. Late in the month a large number of bull elk were observed along the Mary Mountain road as it wound up through Hayden Valley.

On the 25th another trip was made into the upper end of Hayden Valley and again three herds of bison were seen. This time hurried counts indicated that all told in the three herds there was a total of 420 bison. The counts indicated that in one herd there was 183 head with 17 calves, the largest herd about 211 with 23 of these calves and a small herd of 26 animals with 7 calves in it. The range lands in the upper end of Hayden Valley appeared to be in very poor condition, with considerable soil erosion developing and a pronounced change in the vegetative type taking place.

On this last trip on August 25 an inspection was made of the solfatara area near Mary Mountain. There is considerable evidence there that vandals have been digging in the sulfur beds for sulfur crystals. This vandalism apparently occurred late in the season last year since the sulfur which has been scattered around gives evidence of considerable weathering.

While in the solfatara area two small lizards were collected for the reptile collection in the headquarters museum. A water snake was also found in this dry, hot solfatara area and this too has been added to the headquarters collection.

Dr. Harmon Craig and his brother of the University of Chicago arrived in the park on August 23, obtained a collecting permit and collected water samples, gas samples and steam from the hydrothermal features at Norris, Madison and the geyser basins along the Firehole. Dr. Craig has been working for some time on the isotopes, tritium and deuterium. Dr. Craig remained through the end of the month and during part of his study worked with Dr. Donald White of the U. S. Geological Survey. Dr. White has been doing research work in the Norris Geyser Basin annually for a number of years. His major

Black Dragon's Caldron in action on August 28, 1954.
Photo - Condon

work with the Geological Survey is a study of the mineral deposits from hot springs which is being made at the Steamboat Springs area in Nevada. Maps of the Norris Geyser Basin were given to Dr. White and Dr. Craig. These maps were copies of the detailed map which Park Naturalist Watson has prepared on the Norris Geyser Basin and which will be used in the forthcoming Yellowstone Library and Museum Association publication which is being prepared by Mr. Watson on the Norris Geyser Basin. The Engineering Division cooperated when Dwight Richards made for us five copies from the map building.

During the month there has been an excellent bull elk display for the public in the vicinity of Madison Junction. A large bull has been daily frequenting the area in the vicinity of Terrace Springs and up the canyon for half a mile this side. People have found it possible to completely encircle this animal and photograph him. To date there has been no record of his having injured anyone although there were times when it appeared that such an accident might befall some of the visitors.

A large bull bison was killed by an automobile crashing into it on the evening of August 24 on the highway between Alum Creek and Trout Creek in Hayden Valley.

Dr. Sidney W. Fox of Iowa State College was given a collecting permit to collect micro-organisms from the very hot water of the thermal areas. This permit was granted to Dr. Fox on the 26th and he spent several days examining the thermal features and collecting his specimens for determination of the forms which occupy the hottest waters in the park.

Trips were made to the Hayden Valley area at the head of Trout Creek on August 28 and to the Sylvan Springs area on August 29. On these trips pictures were made of some of the hydrothermal features in these two areas and observations were made on wildlife. At the head of Elk Antler Creek a mud pot was observed which is very similar in character to the Black Dragon's Cauldron and which has a diamater of 42 x 45 feet and a depth of about 7 feet below the surface. Two pairs of sandhill crane were observed near the head waters of Elk Antler Creek and three sandhill crane were observed in Gibbon Meadows near Sylvan Springs. It was noticed in the Sylvan Springs area that vandals have visited this thermal area with shovels and dug up the sulfur beds, apparently searching for sulfur crystals.

On the 28th there were 12 black bear observed on the trip from Mammoth via Tower Fall to Canyon. Four of these bears were cubs.

Library

Mrs. Lucile Wagner was employed as the librarian for the Yellowstone Library and Museum Association and served up to and through the 30th of the month when she terminated her services and returned to Salt Lake.

During the month the following books, magazines and pamphlets were in circulation, on indefinite loan or received:

Books received in August	15
Magazines received	30
Pamphlets received	51
Books in circulation	275
Pamphlets & magazines in circulation	30
Books on indefinite loan (included in book circulation)	96

The field libraries from Tower Fall, Canyon, Norris, West Thumb and Madison were returned to the headquarters library.

Natural History Association

The Natural History Association sent out to Sequoia National Park and to the Southwestern National Monuments copies of the National Geographic Magazine that were surplus to the needs of the Yellowstone Park Research Library. These were sent out on the 13th.

The Association deposited money in the National Park Bank on August 14.

Mrs. Alice Gaist was employed by the Association as clerk and worked 88 hours during the month.

It was necessary for the Association to restock the following books in order to meet sales demands for them: "Cubby In Wonderland", "Cubby Returns", "Yellowstone, The Underworld", "Piney Bear", Chittenden's "Yellowstone National Park", "Our Country's National Parks and Monuments" and U. S. G. S. topographic maps of Yellowstone.

Total book sales by the Association during August were $10,123.73. The following tabulation compares the sales at the various stations during August 1954 with those made at the same places during a comparable period in 1953:

Station	1954	1953	Increase or Decrease	% of Increase or Decrease
Bookroom	$ 480.43	$ 173.24	$ 307.19 Inc.	
Old Faithful	6,513.65	6,618.50	-104.85 Dec.	-1.6% Dec.
Mammoth	1,842.15	1,758.20	83.95 Inc.	4.8% Inc.
Fishing Bridge	1,072.85	1,053.00	19.85 Inc.	1.9% Inc.
Madison	214.65	252.40	- 37.75	-15% Dec.
	$10,123.73	$9,855.34	$268.39 Inc.	

The Association mailed out the May-June and July-August issues of Yellowstone Nature Notes on August 5.

Equipment and Supplies

On August 9 the Division received three Bell and Howell 12-inch

Bank receipts in excess	[illegible]
Equipment purchased	[illegible]
Equipment received	[illegible]
Bank in reconciliation	[illegible]
Transfers in operations	
[illegible]	[illegible]
Bank on [illegible]	
[illegible] (Deposits in bank [illegible])	[illegible]

The Field Laboratory [illegible] during [illegible], [illegible] and [illegible] were received in the Bacteriologic Library.

Medical Service Laboratories

The Medical Service Laboratories were set up in Tunisia following [illegible] in the Bacteriologic Division, Tunisian Campaign [illegible]. [illegible] Bacteriologic Laboratory [illegible] in the [illegible] of the Bacteriologic Field Laboratory. These were [illegible] in the [illegible].

The [illegible] operations [illegible] in the [illegible] [illegible] Appendix [illegible].

[illegible] and analyzed by [illegible] in [illegible] [illegible] of [illegible] [illegible].

[illegible] for the [illegible] in [illegible] [illegible] [illegible]

Young bald eagle on nest between Lake and Canyon; banded 7/30/54.
Photo - Condon

speakers, three Bell and Howell 16mm motion picture film splicers and two electric heaters. On the 13th we received two new electric floor polishers for use in the field museums and one 35mm motion picture projector which was obtained from Navy surplus.

The public address unit at Old Faithful Geyser cone went out of commission on the 16th and immediate cooperation was received from the Electrical Division. They placed it back in good operating condition by the morning of the 17th.

Park Naturalists Watson and Allemann prepared a permanent locked storage case for the public address equipment at the Mammoth amphitheater and put this equipment into use on August 12.

Park Naturalist Elmore devoted considerable time during the month of August to the inventorying of property, transfering of property and the return of property from the quarters occupied by seasonal naturalists.

Photographic and Visual Aids

The 16mm motion picture reels of movies on Yellowstone were cleaned and repaired and ready for distribution to the field on August 11. These were distributed to Fishing Bridge and Old Faithful on August 12 and put into use in the regular programs at these stations. The 16mm motion pictures had been in use by the Mammoth museum at their programs for several days.

The Kodaslides and projection equipment used at Tower Fall were returned, put in good order and placed in storage on August 30.

The 16mm motion picture film sent to Reeves Soundcraft Corp. for placing of sound stripe on them were returned the 21st of August.

Two hundred feet of 16mm Kodachrome film was exposed during the month. Also five rolls of K-135-20 and fifty 4x5 film were exposed and processed.

Proposed Outline of Work for September

1. Work on editing of new movies.
2. Close down phases of the interpretive program and release most of the seasonal personnel.
3. Do hydrothermal area cleanup.
4. Prepare text for informational and place names signs.
5. Do additional work for exhibits at the Old Faithful museum.
6. Work on details for the information station exhbits for the West Yellowstone information station.

7. Put sound track on the 16mm motion pictures received back from Reeves Soundcraft Corp.
8. Work up and prepare the September-October issue of Nature Notes.
9. Do the routine work of the Division.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

Original to Superintendent
Copy to: Region Two
Director
Museum
Condon

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
SEPTEMBER 1954

General

The weather was ideal for park visitation during most of the month. There was a period of two or three days which was stormy and overcast near the very first part of the month and a stormy period was prevalent on the 28th and 29th. This was the only threatning weather in September. Lots of people were in the park and large crowds concentrated in the Old Faithful area. There was good attendance in the museums and at all activities up to the time the seasonal interpretive program was closed down. Several hundred people were in attendance at the last amphitheater program at Old Faithful on September 12, while only a small crowd was in attendance at the last program at Mammoth on September 7.

Administration

The division's activities were directed by the Chief Park Naturalist, with Park Naturalist Watson assuming administrative responsibility for phases of the activities on the west side of the park and Park Naturalist Elmore assuming similar responsibilities for stations on the east side of the park. The GS-5 naturalists at field stations supervised the general program and work of men at their stations.

Special Activities and Conferences

Mr. John E. Doerr, Chief Naturalist, came into the park on September 5 and was picked up at Old Faithful by Park Naturalist Watson. During Mr. Doerr's stay in Yellowstone he spent the better part of the 6th with the Chief Park Naturalist going over naturalist division problems. A conference was held in Superintendent Roger's office on the 7th and at that time wildlife problems were reviewed, especially the bison problem in the Lower Geyser Basin and Hayden Valley and the elk problem. The information center at West Yellowstone was discussed, also the amphitheater sites at Mammoth and West Thumb and the proposed research project for George Marler. In attendance at this conference were Superintendent Rogers, Assistant Superintendent Hamilton, Chief Naturalist Doerr, Assistant Regional Director McLaughlin, Biologist Kittams and Chief Park Naturalist Condon. On the 8th Mr. Doerr and Mr. McLaughlin were taken to the Old Faithful area, up Nez Perce Creek a ways and up Fairy Creek where they observed the winter bison range and a large herd of bison. Trips were made into the geyser basins to examine the walks and review some of the protection problems associated with the thermal areas. On the 9th Mr. Doerr and Mr. McLaughlin were taken down the east side of the park where the Canyon area was inspected and a trip made into Hayden Valley for the purpose of observing the bison

UNITED STATES

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range there. The Fishing Bridge campground was inspected and a trip made to the Fishing Bridge museum. Mr. Doerr and Mr. McLaughlin left for Grand Teton that afternoon from West Thumb.

A group of Bureau of Public Roads engineers were moved into the naturalist cabins in the Canyon area on the 15th.

On the 17th Chief Park Naturalist Condon made a trip with Park Engineer Wohlbrandt and Assistant Superintendent Hamilton to the Fishing Bridge amphitheater for the purpose of discussing the replacement of the projection screen at that site.

Three special reports were prepared for the Superintendent on September 22. They were: (1) Priority of Interpretive Needs, (2) Improvement of visitor opportunities to see wildlife, and (3) Natural History Interpretive Programs for Children.

On September 29 Park Naturalist Carl Jepson of Grand Teton National Park and Mr. Howard Stagner, Chief of the Interpretive Staff from Washington, were in the Old Faithful area and a brief visit was had with them by members of the Yellowstone naturalist staff.

Religious Services and Chapel Use

The Yellowstone National Park Chapel was used for religious services by the various religious denominations, with the Latter Day Saints and Roman Catholics concluding their services there on September 5. The Student Ministry continued regular Protestant services in the Chapel at 10:30 a.m. throughout the month with the last service being held on September 26. There was good attendance at these services.

The Yellowstone Park Committee for a Student Ministry in the National Parks met for their annual fall meeting on September 7. At that time the affairs of the Student Ministry for the past season were reviewed and a decision was made by the committee sponsoring the Student Ministry as to who would serve as a resident minister during the winter months. Mr. William Henning, who has been in charge of the Student Ministry program in Yellowstone for the 1954 season, chose to remain and function as the resident minister.

A special meeting of those people of the Mammoth community who are interested in Protestant services was held in the Yellowstone National Park Chapel immediately after the services on September 26 and at that time the people elected Mrs. Lucy Hackett, Mrs. Mary Armstrong, Mr. William G. Proper and Mr. Huntley Child as a committee representing the community of Mammoth to work jointly with a committee consisting of Mrs. Warren Hall, Mrs. Clarence Scoyen, Mr. Dolf Egger and Mr. Walter Bay who are representing Protestants in Gardiner. These two committees working jointly will handle the affairs of the winter ministry in Yellowstone and Gardiner and provide guidance to Mr. Henning in his work. The joint committee elected Mr. Walter Bay to serve as secretary and Mr. Huntley Child to act as treasurer. It was decided that a regular church service would be held in the Yellowstone National Park Chapel each Sunday morning at 11:00 a.m. and that a similar service would be held each Sunday evening in the Gardiner Chapel at 7:30 p.m.

A meeting of the Yellowstone National Park Sunday School Board was held near the end of the month and it was determined to start the regular Sunday morning Sunday School in the Yellowstone National Park Chapel on October 3, with the service being held there at 10:00 a.m.

Two choirs are being organized, one consisting of high school age children and the other of grade school children. It is planned that these choirs will sing at services this winter.

In-Service Training

There were no in-service training programs conducted, with exception of the mimeographing and distribution of the Yellowstone Weekly News Letter by the members of the Naturalist Division.

Interpretive Services

The regular interpretive program as scheduled for the 1954 season was carried on through Labor Day, September 6, after which many phases of the program were dropped and it was gradually tapered off until all activities were closed as of September 29.

Park Ranger Naturalist Parkinson presented a special program to the Northern Pacific Railroad ticket agents group on September 7 at the Old Faithful Inn. Park Naturalist Elmore presented a program to comparable groups on the 8th and 9th and Chief Park Naturalist Condon presented a program to a similar group on the 10th. Attendance at these four programs totaled up to about 600 persons.

Chief Park Naturalist Condon presented a special program to the Baptist convention at the Baptist summer camp on Mill Creek on September 5. He presented a talk to a group of 74 persons on "A Nature Program as Part of Camp Life."

The last evening campfire program was held at Mammoth on the 7th, Fishing Bridge on the 10th and Old Faithful on the 12th. Programs at Canyon and West Thumb were discontinued after the evening of the 6th. The last Terrace Walk was conducted at Mammoth on the 9th and the last of the Geyser Walks at Old Faithful were held on the 24th. Regular talks were given at the Madison Junction museum through the 19th and walks and talks were conducted at the Norris Geyser Basin through the 16th.

The Clematis Gulch self-guiding nature trail was closed and taken up on the 20th, the Green Dragon Spring trail on the 8th and the Gentian trail at Old Faithful on the 18th.

Museum Activities and Exhibits

There were 8 accessions and 32 catalogued items placed in the museum collections during the month of September.

Park Naturalist Elmore served as relief man at the Madison museum on September 1, 14 and 15. Park Naturalist Watson was on duty there September 7 and 8.

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The Clematis Gulch self-guiding nature trail was closed and taken up on the 20th, the Green Dragon Spring trail on the 7th and the Spring trail at Old Faithful on the 12th.

Museum Activities and Exhibits

There were 4 accessions and 32 catalogued items placed in the museum collections during the month of September.

Park Naturalist Elmore served as relief men at the Shoshone museum on September 1, 14 and 15. Park Naturalist Maison was on duty there September 7 and 8.

The Norris museum was closed as of the close of the day on September 16, with the shutters being placed on and the exhibits in the foyer left open for public use. The Madison museum was closed at the end of the day on September 19 and the shutters were placed on this building for the winter. Fishing Bridge museum was closed at the end of the day on September 21, all shutters being placed on the building and covers placed on all exhibit cases.

The large leaning tree near the Fishing Bridge museum blew down on September 20, barely missing the corner of the building. No damage was done. The tree was removed from the grounds area by the close of the month by the crew who are putting up the new projection screen.

Park Naturalist Elmore has devoted several days time to working on a write-up of plans for the West Entrance information station exhibits and Chief Park Naturalist Condon has devoted some time to reviewing these.

The Old Faithful museum was closed on September 29 when shutters were placed on the building and the seasonal personnel left the area. The Mammoth museum remained open, although there is no longer any information service maintained at the information desk and people are served only as they come to the office.

There was a great deal of equipment and other material brought into Mammoth from the field for rehabilitation and storage.

All of the wayside exhibits are still open and being used by park visitors at the months close.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Elmore was on duty all month. Clerk-Stenographer Bettilee Hallin was on duty all month except for 15 hours sick leave. Park Naturalist Watson used 51 hours of annual leave during the month. The services of seasonal personnel were terminated as follows, with the men either being terminated or furloughed.

Name	Status	At the close of duty
Theodore Stamas	Furloughed	September 1
Albert Fisher	"	September 1
Wallace Good	"	September 9
Frank Shaw	"	September 4 (Noon)
Robert K. Wolfer	"	September 5
Robert Jonas	"	September 6
William Fischer	"	September 6
Frank Rentchler	"	September 6
William Driscoll	"	September 6
Willis Eggler	"	September 7
Samuel M. Beal	"	September 7
Clarence Alleman	"	September 8
Joseph Catmull	"	September 8
William McGuinness	"	September 9

The Norris museum was closed as of the close of the day on September 16, with the shutters being placed on and the exhibits in the Norris left open for public use. The Nelson museum was closed at the end of the day on September 17 and the shutters were placed on this building for the winter. Fishing Bridge museum was closed at the end of the day on September 18, all shutters being placed on the building and covers placed on all exhibit cases.

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There was a great deal of equipment and other material brought into Mammoth from the field for rehabilitation and storage.

All of the anyside exhibits are still open and being used by park visitors at the months close.

Personnel

Chief Park Naturalist Condon was on duty all month. Park Naturalist Cloere was on duty all month. Clerk-Stenographer Nettles Collin was on duty all month except for 15 hours sick leave. Park Naturalist Nelson used 31 hours of annual leave during the month. The services of seasonal personnel were terminated as follows, with the new either being terminated or furloughed.

Name	Status	At the close of duty
Theodore Thomas	Furloughed	September 1
Albert Fisher	"	September 1
Wallace Good	"	September 1
Frank Shaw	"	September 6 (Lunch)
Robert E. Wolfer	"	September 1
Robert Jones	"	September 6
William Fischer	"	September 6
Frank Bentzler	"	September 1
William Driscoll	"	September 1
Willie Taylor	"	September 7
Samuel M. Beal	"	September 7
Clarence Allman	"	September 7
Joseph Cornell	"	September 8
William McQuinness	"	September 1

Name	Status	At the close of duty
Harry V. Truman	Furloughed	September 9
Charles Gebler	"	September 11
Kenneth Armitage	"	September 11
Joseph Murphy	"	September 12
Lowell Biddulph	"	September 12
Donald W. Larson	"	September 15
George D. Marler	"	September 15
B. Jay Rencher	"	September 19
Frederick B. Turner	Terminated	September 21
Hugh Kingery	Furloughed	September 26
Ted J. Parkinson	"	September 28
Elmer Anderson	"	September 29

The services of the laborer-janitors were terminated as follows:

Ted Davis September 8
Howard Biddulph September 12

Park Naturalist Elmore devoted considerable time during the month to closing up the quarters used by seasonal personnel during the 1954 season. The tent top at Canyon was taken down and stored on September 3.

Research and Observation

Park Ranger Naturalist Charles Gebler continued his nature trail research project during the fore part of the month and was provided equipment for use in making a map of the route followed by the nature trail to Observation Point at Old Faithful.

Dr. Harmon Craig, who has been doing research work on hydrogen isotopes, left the park September 1 and at that time took with him some specimens of wood from the Old Faithful Geyser cone which had been exposed to erosion for the purpose of carbon dating this material.

Mr. Francis Boyd completed his projected field work on a study of the rhyolite flows of Yellowstone National Park on September 2. Mr. Boyd is going to provide Yellowstone with maps, aerial photos and copies of his thesis.

Field trips were made either completely around the loop or parts of it by Chief Park Naturalist Condon a total of 18 days during the month.

On the evening of September 11 two bull moose were watched by Chief Park Naturalist Condon fighting in Willow Park, for a period of about 10 minutes.

On the 14th an inspection and exploring trip was made in the Morris Geyser Basin and the Echinus Geyser was observed in full eruption. On this same date a rather unusual observation was made when Whirligig, Constant and Little Whirligig were all in eruption at the same time.

On the 17th of the month the Morning Geyser erupted at about 9:00 a.m. This was followed in the afternoon by an eruption of Clepsydra and late in the evening the Fountain Geyser erupted. This entire group followed the eruption sequence which has been observed in the past.

Chief Park Naturalist Condon decided to spend some time observing the action of the Giant Geyser. On September 29 after the geyser had gone several hours past the average interval for its eruption he stayed with the geyser and made observations of its actions. He spent the entire night of September 29 by the geyser watching its actions and remained with it through the 30th. The Giant had not erupted since about midnight on September 26. After staying with it until 10:00 p.m. on September 30 Condon returned to Mammoth. The geyser was reported to have erupted late Friday night, October 1. This placed the interval between the eruptions at about 120 hours. The average for the 1954 season had been about 60 hours.

During his stay in the Old Faithful area on the 29th and 30th in addition to making observations at the Giant, it was possible for Condon to see the Beehive Geyser twice, Castle three times, Grand Geyser two times, Riverside four times, Daisy Geyser six times, Plume Geyser four times, Oblong Geyser five times and Old Faithful eight times. In addition to these, several smaller geysers were seen in action, and even though the Giant was not seen it was learned from first-hand experience that with a little effort it is possible for people to see several major geysers in action in a limited period of time.

The geyser known as Myriad or Savage that is located in the area behind the Old Faithful Inn and is part of the Myriad Group of hot springs is still erupting once or more a day. It was seen in action on the 26th and again on the 29th by Chief Park Naturalist Condon. Some of the sinter thrown from its vent was collected and will be added to the geological specimen collection at the headquarters museum.

Park Naturalist Watson has devoted considerable time to a continuation of the Norris research project which will result in the publication on that particular geyser basin. Mr. Watson is now working up the bibliography for his reference source material.

During the month of September the Black Dragons Caldron was visited seven different times by Condon and some rather interesting changes have taken place. The activity has shifted to the south end of the crater where it is again eating into the high wall. The level of the mud surface has lowered about eight inches in a months time. There is still pronounced activity along the entire length of the 72 foot fissure. Several large blocks have caved in from the vertical wall and the caldron is in the process of churning these into fine mud.

In the Mud Volcano area the Sulphur Caldron which is immediately below the rock wall has changed considerably in character during the past month also, with a shift of activity over closer to the rock wall and a concentration of most of the energy in four large vents.

There has been a pronounced increase in water flow from the Jupiter Springs on Jupiter Terrace flooding an extensive area at the Mammoth Hot Springs Terraces. The Palette Springs extension which dried up during the winter of 1953-54 became active on or about September 20 and there has been a continued increase in the flow of water from that spring. The new spring on Highland Terrace which was so active during the winter of 1952-53 and 1953-54 is virtually dried up at the close of the month of September.

Library

A large shipment of books for binding were sent to the Dieter Book Bindery by the Yellowstone Library and Museum Association on September 28. This consisted of a number of books that needed rebinding and a large group of periodicals.

Books received in September	6
Magazines received	16
Pamphlets received	20
Books in circulation	75
Books on indefinite loan	96

Natural History Association

The regular deposits of receipts from sales were made in the National Park Bank in Livingston during the month.

Book sales for the Association were terminated at the Madison Junction museum on September 17, Fishing Bridge museum September 21, Mammoth museum September 23 and the Old Faithful museum September 29.

Considerable time was spent near the close of the month preparing summaries of the seasons activities of the Association in preparation for the writing of the annual reports and for the annual meeting of the Board of Directors. It is planned to hold this meeting the latter part of October.

Mrs. Alice Quist, who has been employed as clerk of the Association, worked 90½ hours and has been busy keeping the book sales records, making book stock inventories, making up bank deposit statements and attending to the other clerical work.

Total book sales by the Association during September were $3,078.32. The following tabulation compares the sales at the various stations during September 1954 with those made at the same places during a comparable period in 1953:

Station	1954	1953	Increase or Decrease	% of Increase or Decrease
Bookroom	$ 167.07	$ 102.22	$ 64.85 Inc.	
Mammoth	298.85	301.40	2.55 Dec.	0.8% Dec.
Madison	160.90	30.20	130.70 Inc.	432.8% Inc.
Old Faithful	2,260.70	1,118.80	1,141.90 Inc.	102.1% Inc.
Fishing Bridge	190.80	134.20	56.60 Inc.	42.2% Inc.
	$3,078.32	$1,686.82	$1,391.50	

The Yellowstone Library and Museum Association purchased several books for the Yellowstone Park research library.

On September 30 the shipment of books for stock were received from the University of New Mexico Press. These publications were "Yellowstone, Its Underworld."

Equipment and Supplies

All the screens in the field were taken down during the month and brought into Mammoth where they will be either replaced or refurbished for use during the 1955 season. All of the public address units and motion picture projectors were checked and serviced by Chief Park Naturalist Condon on September 18.

Photographic and Visual Aids

Tape recordings were made of the sounds of the thermal features, water falls and other noise making phenomena, and it is planned to try and use these sounds in conjunction with the magnetic sound stripe on 16mm movies.

The slides, projectors and other visual aids equipment were brought in from West Thumb on September 9 by Condon. The same equipment, including the 16mm motion picture projector and films and also the public address units, were brought in from Fishing Bridge by him on September 15. On the same date he picked up and brought in the same equipment from Old Faithful.

The 16mm motion picture reels were all placed in storage but still have to be cleaned and thoroughly checked for any physical damage.

Park Naturalist Watson spent three days working in the darkroom and accomplished the following work:

30 8x10 prints, black and white enlargements
15 8x10 glossy enlargements
50 4x5 prints

In addition to this he developed 15 4x5 negatives.

There were 75 2x2 Kodaslides bound by Park Ranger Naturalist Elmer Andersen. All sets from the field were brought in and these were checked by Clerk-Stenographer Bettilee Hallin.

There were 16 enlargements of animals sent to the Good Neighbor Committee in Texas for them to present to Mexican school teachers for use in their school work.

Proposed Outline of Work for October

1. Edit and issue the September-October and November-December Nature Notes.

2. Do editing work on 16mm motion pictures.

3. Work up the sound track for movies.

4. Submit plans for the West Yellowstone information station and exhibits.

5. Prepare the text for place name and informational signs.

6. Submit more exhibit plans for the Old Faithful museum.

7. Prepare for and hold the annual meeting of the Yellowstone Library and Museum Association.

8. Continue the routine work of the Division.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original to Superintendent
Copy to: Region Two
Director
Museum
Condon

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone National Park
Yellowstone Park, Wyoming

MONTHLY REPORT OF THE NATURALIST DIVISION
OCTOBER 1954

General

The weather for the greater part of the month of October was clear and friendly. There were a goodly number of visitors traveling through the park and although no interpretive services were available, all wayside exhibits were in use by the public and the foyer at the Norris museum served as a well attended exhibit. There were stormy periods the 9th through the 13th and the 23rd through the 26th. This latter storm closed some of the roads and reduced the number of people visiting the park to a minimum. The only personnel active with the Naturalist Division were permanent employees and their activities were confined largely to closing up museums and preparing seasonal quarters for the winter.

Administration

Chief Park Naturalist Condon directed the activities of the Division throughout the month.

Special Activities and Conferences

Frank Oberhansley, Superintendent of Grand Teton National Park, was in the Chief Park Naturalist's office on October 4.

Howard Stagner, Chief of the Interpretive Branch, Washington, D. C., was in on October 5 and 6 and at that time reviewed with members of the Naturalist staff problems concerning the program here.

Homer Farr, Acting Superintendent of Capulin National Monument in New Mexico, stopped in at the Chief Park Naturalist's office on October 13 and visited for awhile. At that time he was given a specimen of obsidian for use at Capulin.

On October 6 Mr. Bath of the Wyoming Highway Department was in the Chief Park Naturalist's office and at that time was loaned some pictures of Yellowstone for use by that department in their public relations work.

Kenneth Thompson of the Montana Fish and Game Department, with Mr. J. LaCasse of the Montana Fish and Game Department and Mr. Joern Gerts, who is a photographer for Life Magazine, were in the park from the 5th through the 7th, stopping in at the Chief Park Naturalist's office several times. This group was obtaining pictures of wildlife for use in the Life Magazine.

UNITED STATES

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MONTHLY REPORT OF THE NATURALIST DIVISION
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General

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Administration

Chief Park Naturalist Gordon Girocco: the activities of the Division throughout the month.

Special Activities and Conferences

Frank Oberhansley, Superintendent of Grand Teton National Park, was in the Chief Park Naturalist's office on October 4.

Howard Stagner, Chief of the Interpretive Branch, Washington, D. C., was in on October 1 and 2 and at that time reviewed with members of the Naturalist staff problems concerning the program here.

Homer Fary, Acting Superintendent of Capulin National Monument in New Mexico, stopped in at the Chief Park Naturalist's office on October 13 and visited for while. At that time he was given a specimen of [illegible] for use at Capulin.

On October 6 Mr. Bath of the Wyoming Highway Department was in the Chief Park Naturalist's office and at that time was lowered some pictures of Yellowstone for use by that department in their public relations work.

Kenneth Thompson of the Montana Fish and Game Department, with Mr. J. LaCroix of the Montana Fish and Game Department and Mr. Henry Gerts, who is a photographer for Life Magazine, were in the park from the 1st through the 7th, stopping in at the Chief Park Naturalist's office several times. This group was obtaining pictures of wildlife for use in the Life Magazine.

Guy D. Hazelton of Hollywood, California, producer of Travelettes movies, was in the Chief Park Naturalist's office on the 13th and at that time had with him a new motion picture entitled "Geyser Melodies." This is a very good picture and is being released through distribution channels to the public schools. Mr. Hazelton was in the park through most of the balance of the month of October and stopped in on a number of occasions. He is obtaining additional material on Yellowstone which he plans to use in the preparation of a Travelettes movie including several western national parks.

The naturalist quarters which have been occupied by engineering personnel in the Canyon area were vacated on Saturday, the 16th, and these were put back in order by members of the Naturalist Division personnel on October 18.

A special conference was held in the Conference Room on Saturday, October 2, with Thomas Vint, Cecil Doty, Frank Mattson, Warren Hamilton and Chief Park Naturalist Condon in attendance. The conference was to review the museum and administration building plans for the Canyon area and to discuss the amphitheater. A trip was made with Messrs. Mattson and Doty on the 5th to Canyon where the site for the museum-administration building and amphitheater was inspected and the problem discussed on the ground. Mr. Stagner met the group at this point and participated in the discussions.

On this same day Mr. Stagner was taken to the Fishing Bridge amphitheater site and the one at West Thumb. On the 6th he was taken on a field trip down through the Stevens Creek area where he was given the opportunity to see portions of the Yellowstone wildlife winter range.

On the afternoon of October 6 Chief Park Naturalist Condon attended a meeting of the Community Activities Committee in Assistant Superintendent Hamilton's office.

Chief Park Naturalist Condon participated in the escorting of the Mohammed Ali party through the geyser basins on October 11.

Religious Services and Chapel Use

The regular winter Sunday School services were held in the Yellowstone National Park Chapel each Sunday at 10:00 a.m. Regular church services as part of the new program set up for the winter of 1954-55 were conducted at 11:00 a.m. each Sunday, with Student Minister William Henning handling the services.

On Saturday, October 2, at 2:00 p.m. the Yellowstone National Park Chapel was used for the wedding services of Mrs. Eleanor K. Geary, Manager of the Yellowstone Park Co. gift shops, to Mr. Frank D. Johnson of San Diego, California. The Rev. Everett Dennis of the Pine Creek Methodist Church performed the ceremony.

In-Service Training

The only in-service training activities which might be considered as having been participated in by members of the Division was the assembling and distribution of the Yellowstone Park Weekly News Letter.

Guy D. Haselton of Hollywood, California, producer of travelogue movies, was in the Chief Park Naturalist's office on the 11th and at this time had with him a new motion picture entitled "Nature Wonders." This is a very good picture and is being released through distribution channels to the public schools. Mr. Haselton was in the park through most of the balance of the month of October and engaged in taking a number of pictures. He is obtaining additional material on Yellowstone which he plans to use in the preparation of a Yellowstone movie including several [illegible].

The naturalist programs which have been [illegible] by a [illegible] personnel in the Canyon area were [illegible] on Saturday, [illegible], and [illegible] were put back in order by members of the Naturalist Division [illegible] on October 15.

A special conference was held in the Naturalist Office on Thursday, October 9, with Thomas Vint, Cecil Doty, Frank Mattson, [illegible] and Chief Park Naturalist Condon in attendance. The conference was to review the museum and administration building plans for the Canyon area and to discuss the [illegible]. A field trip was made with Vint, Doty, [illegible] to the [illegible] Canyon where the site for the museum-administration building and [illegible] problems discussed on the ground. Mr. Condon was [illegible] in the [illegible].

On this same day Mr. Condon was shown in the Fishing Bridge [illegible] and the new [illegible] West Thumb. In the [illegible] a [illegible] through the [illegible] opportunity to see [illegible] of the Yellowstone wildlife winter range.

On the afternoon of October 8 Chief Park Naturalist Condon attended a meeting of the Community Activities Committee in [illegible] Superintendent [illegible]'s office.

Chief Park Naturalist Condon participated in the [illegible] of the [illegible] through the [illegible] on October 11.

<u>Religious Services and Church Use</u>

The regular winter Sunday School services were held in the Religious Chapel each Sunday at 10:00 a.m. Regular church services [illegible] 11:00 a.m. each Sunday, with Student [illegible] the services.

On Saturday, October 4, at 2:00 p.m. the Yellowstone [illegible] Chapel was used for the wedding services of Mrs. [illegible], manager of the Yellowstone Park Co. gift shops, to [illegible], California. The Rev. [illegible] of the [illegible] Church performed the ceremony.

<u>Interpretive Planning</u>

The only interpretive planning activities [illegible] have been participated in [illegible] of the [illegible] and distribution of the Yellowstone Park [illegible].

Interpretive Services

There were no interpretive services conducted as such by members of the Naturalist Division during the month of October.

A new screen frame was constructed in the amphitheater at Fishing Bridge. This work was started in late September and was completed October 12. There still needs to be a stage or platform placed in front of the screen. The over all screen surface of this newly erected frame is 14' x 16'.

The electricians completed the installation of flood lights in the Old Faithful amphitheater on October 15. These were tested on the 18th and worked satisfactorily. Flood lights were placed in the Fishing Bridge amphitheater on the 21st.

The movie "Geyser Melodies" by Guy D. Mazolton was shown to the Gardiner P.T.A. by Chief Park Naturalist Condon on October 18, with 53 persons in attendance at the program.

Museum Activities and Exhibits

The electricians have placed new florescent lighting fixtures in the biology, geology and library rooms of the Fishing Bridge Museum. These installations will vastly improve the lighting in these rooms.

Park Naturalist Elmore devoted the major part of his work time during the month to rough drafting plans for the exhibits which are to be placed in the West Yellowstone information station. Drafts for six of the exhibit panels have been reviewed by Chief Park Naturalist Condon and are now in the process of circulation and review by other divisions concerned with the type of exhibits which are to be installed in the information station.

The Mammoth museum was open on all week days during the month, but there was only a light visitation during the last half of the month and a total of only about 250 people visited the museum.

Shutters were placed on wayside exhibits in the field on October 26 following the snow storm which virtually discontinued public travel on the main loop highway.

Seven 4x5 negatives were sent to the Museum Branch in Washington for their use in the preparation of the Old Faithful exhibits.

Near the end of the month Park Naturalist Watson began a project of organizing the key case and key collection for all of the Division's units which must be under lock and key.

Trips were made to the Fishing Bridge museum on the 18th and to the Old Faithful museum on the 18th, 21st and 22nd.

Personnel

Park Naturalist Watson was on duty all month except for 35 hours

of annual leave. Park Naturalist Elmore was on duty all month except for one hour annual leave. Clerk-Stenographer Hallin was on duty all month except for 8 hours of leave-without-pay. Chief Park Naturalist Condon was on duty all month.

Park Naturalist Francis Elmore was advised on October 26 that he was selected for appointment to the position of Park Naturalist at Natchez Trace Parkway and Mr. Elmore has accepted this position. If he is appointed to it he expects to leave sometime in November.

Research and Observation

Park Naturalist Watson spent considerable time during the month working on the Norris research project which he has been conducting, and has completed the rough draft of the manuscript, including the bibliography. This is now being reviewed by Chief Park Naturalist Condon and will be referred to others interested in the manuscript before it is typed in final form for submission to a printer for publication. Mr. Watson did added field work on the Norris project in the Norris Geyser Basin on October 8 and 20th.

On October 3 Park Naturalist Watson observed some harlequin ducks on the Yellowstone River below the bridge near Tower Junction. On that same day he observed a pair of trumpeter swan on Floating Island Lake.

A black bear raided the garbage cans of the Mammoth community and stole a white-tailed deer hide from the back porch of the Abbie residence on the night of October 26. Black bear were still frequenting the roadsides at the months close. A black female with two cubs was observed on the 24th about six miles south of Norris by Park Naturalist Elmore and two black bear have been reported regularly frequenting the roadside between Madison Junction and the Lower Geyser Basin. It is anticipated that these bears are going to den up in the Firehole Canyon area. One black bear has been seen on a number of occasions near a den on the Gibbon River which has been occupied by black bears in previous winters.

Park Naturalist Elmore spent considerable time using the Yellowstone Park research library to check data in the preparation of exhibits for the West Yellowstone information station.

Chief Park Naturalist Condon made field trips to Fishing Bridge on the 1st, to Sylvan Pass on the 3rd, trips around the loop on the 18th and 21st and a trip to the Norris Geyser Basin on the 22nd. On the 3rd ten antelope were observed on Swan Lake flat and two large herds of bison were seen in the lower section of Hayden Valley.

Micro fauna and flora were collected from the hot waters of thermal areas at West Thumb, Upper Geyser Basin, Norris and Mammoth for Dr. Austin Phelps of the University of Texas on the 18th and 19th. These were sent out air mail to Dr. Phelps on the morning of the 19th.

A great gray owl was observed near the Grotto Geyser by the Chief Park Naturalist on the 21st. On this same date 53 bison were counted and

photographed in the Nez Perce Creek area near the Nez Perce Creek bridge on the main loop highway.

On October 21 and 22 algae were collected from the thermal areas at Norris, Clearwater Springs and the Mammoth Hot Spring Terraces for Dr. G. Krotkov of Queen's University, Kingston, Ontario. These specimens were shipped by express collect on October 23 to Miss Mary Krotkov, Biology Department, Princeton University.

On the 22nd some interesting observations were made in the Clearwater Springs area near Roaring Mountain and some temperatures were taken. Three of the small pools have registered temperatures of 201°F. indicating that they were superheated in character.

Natural History Association

Mrs. Alice Quist was employed by the Association as clerk and worked a total of 77 hours during the month of October.

Book sales for the month were $45.55.

Pictures for use in the preparation of a cut for the cover and text for a pamphlet to use on the wildlife search caravan which is conducted from the Mammoth museum were sent to Park Ranger Naturalist Wallace Good who has indicated a desire to print 4,000 copies of the pamphlet. Mr. Good is going to accomplish this project as part of the work program done by students at the institution where he teaches.

The September-October issue of Nature Notes was run off on the 20th and 21st and were assembled and stapled on the 22nd. The November-December issue of Yellowstone Nature Notes is typed and ready to run at the months close. Both issues of the Nature Notes will be mailed together early in November.

The books which were shipped out to the Dieter Book Bindery in late September were returned by the bindery on October 25 and the work done was a high quality. The books are being returned to the stacks in November.

The annual meeting of the Board of Directors of the Yellowstone Library and Museum Association was held at 1:30 p.m. in the Chief Park Naturalist's office on October 27. Members of the Board of Directors in attendance were: Jack Haynes, Edmund B. Rogers, Joseph Joffe, Francis Elmore, Alice Quist, Verde Watson, Otto Brown, William Proper, and David de L. Condon. Members absent were Warren Hamilton and James Brown. The report of the Executive Secretary on the activities of the Association and a report of the annual meeting will be submitted after January 1, 1955.

Library

Books received in October	3
Magazines received	15
Pamphlets received	18
Books in circulation	15
Books on indefinite loan	97

Photographic and Visual Aids

An order was placed with the Hill Air Force Base on October 14 for surplus property available there. The order included loud speakers, camera lenses, 16mm projector parts and lenses, amplifiers and other units which can be used in the visual aids work of Yellowstone. It has not been determined yet whether this material will be available.

Park Naturalist Watson devoted one days time to darkroom work and the Chief Park Naturalist spend 1/2 day on a Saturday working in the darkroom. The work accomplished was the developing of 54 4x5 black and white films and prints of 26 8x10 enlargements.

Several requests for the loan of Kodaslides were filled. Slides were sent to Park Ranger Naturalist Robert Jonas, Moscow, Idaho; Superintendent Frank Anderson, Scotts Bluff National Monument and Superintendent Frank Oberhansley, Grand Teton National Park.

Seven 4x5 colored prints were loaned to Mr. Bath of the Wyoming Highway Department for use on the Wyoming highway map. It is anticipated that he will select one print from this group for that publication.

Black and white, 8x10, glossy prints of Old Faithful Geyser were sent to the Hernando High School of Brookville, Florida. Seven vandalism pictures were sent to "Keep America Beautiful, Inc." and a number of 8x10 glossy prints on bear feeding were sent to Miss Margaret Zeiss, Compton, California for use in the preparation of an article on this subject.

Correspondence was carried on with Mr. Robert Wald concerning 16mm movies which were sent on a loan basis to him, and we were advised on the 15th that they were making copies and that the original footage would be returned early in November.

Rudolf Grimm was loaned a 16mm motion picture film for use while he was serving as Acting Superintendent at George Washington Carver National Monument, and the 16mm motion picture film "Wild Animal Heaven" was sent to Superintendent Frank Anderson at Scotts Bluff National Monument.

The new 35mm portable projector which was obtained as surplus property from the Naval station at Clearfield was set up on the 13th and a number of reels of the 35mm black and white film which we have on hand were reviewed. Much of this film has historical value.

During the month 600 feet of 16mm colored motion picture film was exposed, and sent out for processing. Two rolls of 35mm Kodachrome film was exposed. In addition, a total of 36 4x5 black and white films were exposed.

Proposed Outline of Work for November

1. Yellowstone Nature Notes will be mailed.

2. Plans for the exhibits at West Yellowstone information station will be completed.

3. Plans for the remaining three exhibits at the Old Faithful museum will be completed.

4. 16mm motion picture film will be edited.

5. All field exhibits will be closed.

6. Clean-up work will be done in the Norris Museum area.

7. Routine work of the Division will be carried on.

Respectfully submitted,

David de L. Condon

David de L. Condon
Chief Park Naturalist

Original to Superintendent
Copy to: Region Two
Director
Museum
Condon

Acting Superintendent December 7, 1954

Chief Park Naturalist

Report of Activities of Naturalist Division for November

Special Activities and Conferences

Mr. George Miller, Assistant Superintendent of Glacier National Park, was in the Chief Park Naturalist's office for a visit on November 15.

Park Naturalists Watson, Elmore and Condon attended the staff meeting in the conference room on November 16.

Religious Services and Chapel Use

The regular Sunday School services were held in the Yellowstone Park Chapel each Sunday at 10:00 am, with an average attendance approaching 70 persons.

Mr. William Hemming, resident student minister, has conducted a service in the Yellowstone Park Chapel each Sunday at 11:00 am. The service has been well attended with some 35 to 40 persons being at Church each Sunday.

During the month Mr. Frank Watson, Mr. Tom Garry, Mr. Verde Watson, and probably others worked on the installation of a partition in the Chapel basement so that a portion of the basement could be used for Sunday School classes.

Interpretive Services

During the month, 16mm motion pictures on Yellowstone Park were on loan to Robert K. Wolfer and to Superintendent Frank H. Anderson, Scottsbluff National Monument. Mr. Anderson also had on loan a set of some 72 Kodaslides.

Park Naturalist Condon presented a program on Yellowstone Park to the Livingston Rotary Club on November 8. There were about 40 persons in attendance. On November 30 he presented a similar program to the Lutheran Brotherhood of the American Lutheran Church of Livingston. There were about 99 people in attendance at this program. There were in the audience people from Bozeman, Wilsall, Big Timber, and Billings, in addition to the regular members of the Livingston group.

Museum Activities and Exhibits

Pictures were made on November 3 of the vandalism exhibit at Old Faithful.

Arrangements were made for Mr. James Anderson of Kansas City, Missouri, to receive one heifer buffalo hide for use in the preparation of museum exhibits

at the Fort Osage Restoration Project. This hide was sent to the Beckman Tanners, Great Falls, Montana, and after it has been processed it will be turned over to Mr. Anderson.

The exhibit plans for all of the panels to be used in the West Yellowstone Information Station were finished and reviewed by the Superintendent's staff. At the month's close these exhibit plans are being typed in final form for submission to the Director of the Museum Branch for review. In addition to completion of these exhibit plans the balance of the exhibit panels at Old Faithful were planned out and they, too, are in the process of being typed for submission to the Museum Branch in Washington.

On November 18 a trip was made to Old Faithful Museum and return, at which time the shutters were placed over the Moose Exhibit and the exhibits in the foyer at Norris Museum were covered for the winter.

Personnel

Park Naturalist Watson was on duty all month except for 5 hours annual leave and 12 hours dental leave. Park Naturalist Elmore was on duty in Yellowstone through November 20 and transferred to Natchez Trace Parkway on November 21. Clerk-Stenographer Bettilee Hallin used 18 hours of sick leave and resigned her position at the close of business on November 22. Mrs. Winona Moore entered on duty on November 23 and was on duty through the balance of the month. Park Naturalist Condon was on duty all month except for 8 hours of annual leave taken November 26.

New job descriptions were prepared for the GS-7 Park Naturalist and GS-9 Park Naturalist positions and these job descriptions were submitted to the Personnel Department on November 30.

Park Naturalist Watson has accepted an opportunity to become the Chief Park Naturalist at Cape Hatteras National Seashore Recreational Area and expects to leave Yellowstone in late December. Park Ranger Merrill D. Beal was selected for appointment to the position vacated by Park Naturalist Elmore, and it is anticipated that he will be able to enter on duty shortly after December 1.

Research and Observation

Park Naturalist Watson spent November 10 in Bozeman, Montana, checking the Haynes collection of photographs of the Norris Geyser Basin for the purpose of securing prints for use in illustrating the pamphlet which is to be published on the Norris Geyser Basin and of which he is the author. The manuscript on Norris Geyser Basin, prepared by Park Naturalist Watson, was reviewed during the month of November and resubmitted to him for action on suggested changes and revisions. Mr. Watson spent November 22 in the Norris Geyser Basin making a final check of details of certain thermal features and map revisions. A selection of negatives for use in printing pictures of the Norris Geyser Basin was made by Park Naturalist Watson from the National Park Service collection of pictures, and some pictures were made.

On November 3 a trip was made by Park Naturalists Condon and Watson to the Grand Canyon area and around the entire loop for the purpose of taking

some photographs of features and making natural history observations. Temperatures were taken of the superheated steam vent at Steamboat Point and it was found to be 220° F.

Frederick Turner's manuscript on Reptiles and Amphibians was submitted by him in mid-November and is ready for submission to a publisher for estimates on the cost of publication sometime in December.

On November 18 a trip was made with Park Naturalist Elmore to Old Faithful and return, and at that time micro-organisms were collected from a number of thermal features and sent to Dr. Austin Phelps at the University of Texas, Austin, Texas.

Natural History Association

Mrs. Alice Quist worked a total of 22 hours during the month as clerk. By special action of the Board of Directors, Mrs. Anna K. Biastock was elected Treasurer of the Association, and also a member of the board to fill the vacancy created by the resignation of Francis Elmore when he left for Tupelo. Mrs. Biastock succeeds Mrs. Alice Quist as Treasurer of the Association.

On November 15 the Association mailed out the September-October and the November-December issues of Yellowstone Park Nature Notes. With the November-December issue was enclosed a request for new addresses and an expression of desire to be retained on the mailing list, and in addition a plea was made for the recipients of Nature Notes to supply postage. About half of the persons submitting a request to remain on the mailing list have provided postage. The book sales of the Association during the month totaled $17.17. The Association during the month purchased a number of books for the Yellowstone Research Library. They also purchased 150 key rings and 300 key tags for use in labeling the keys used by the Naturalist Division.

Equipment and Supplies

The final group of 6 projection screens came in, making a total of 11 obtained from surplus property at Clearfield, Utah. One of these screens was put up in the Canteen on November 18.

Respectfully submitted,

David de L. Condon
Chief Park Naturalist

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Acting Superintendent January 24, 1955

Chief Park Naturalist

Report of Activities of Naturalist Division for December 1954

Religious Services and Chapel Use

The Superintendent's Church Committee held a meeting in the office of the Administrative Officer on December 6. The Committee arranged to purchase materials for erecting partitions in the Chapel basement so that a Sunday School room could be arranged therein. The decision was also made by the Committee to investigate the costs of upholstering or padding the pews in the Chapel, and as soon as figures have been obtained, some action will be taken by the Committee toward getting the job done.

The regular Sunday School services were held in the Yellowstone National Park Chapel each Sunday at 10:00 A.M. The Church services were held at 11:00 A.M. each Sunday. A special type service was conducted by the High School age children on December 19. A special Christmas Eve service was held in the Chapel at 6:00 P.M. on Christmas Eve, December 24. The Junior High students from the Gardiner High School presented a Christmas play entitled, "The Candle in the Window." A large congregation attended this service.

Interpretive Services

The members of the division provided no interpretive programs. A number of items of correspondence were answered which provided interpretive information on the park. In addition to this, the movie WILD ANIMAL HEAVEN was used several times by Superintendent Frank H. Anderson at Scotts Bluff National Monument, and the movie GEYSERLAND was used for a program at West Yellowstone.

Bear pictures, with appropriate captions, were sent to the Follet Publishing Company for their use in illustrating a book.

Two movies, entitled TROUT FISHING IN THE TETONS and RUNNING HELL'S CANYON, were shown to the Mammoth community in the Canteen on December 6. These were movies taken by Drs. Frank and John Craighead.

Two sets of kodaslides were out on loan during the month for use in presenting programs on Yellowstone.

Museum Activities and Exhibits

The headquarters museum was visited by 17 people during December. Early in the month all cases and specimens were cleaned and covered for the winter. The two stage coaches on the Museum porch were wrapped in tarpaulins.

The collections of birds, plants and mammals were all thoroughly fumigated during the month and poisons were placed to control pests.

Acting Superintendent

January 24, 1955

Chief Park Naturalist

Report of Activities of Naturalist Division for December

Religious Services and Chapel Use

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Interpretive Services

The members of the division provided no interpretive program. A number of items of correspondence were answered which provided interpretive information on the park. In addition to this, the movie film [illegible] was used several times by Superintendent Frank [illegible], assessor at Scotts Bluff National Monument, and the movie [illegible] was used for a program at West Yellowstone.

Some pictures, with appropriate captions, were sent to the Foliar Publishing Company for their use in illustrating a book.

Two movies, entitled [illegible], were shown to the Kenneth community in the Canteen on December 4. These were movies taken by Drs. Frank and John Craighead.

The sets of bodealides were set on loan during the month for use in presenting programs on Yellowstone.

Museum Activities and Exhibits

The headquarters museum was visited by 17 people during December. Early in the month all cases and specimens were cleaned and covered for the winter. The two stage cuspers on the museum porch were wrapped in burlap.

The collections of birds, plants and mammals were all [illegible] during the month and poisons were placed in several parts.

The West Yellowstone Information Station exhibit plans were given a final review and are in the final stages of typing. The same type of review was given the remaining Old Faithful Museum exhibit plans and all will be submitted to the Museum Branch for review early in January.

Personnel

Park Naturalist Condon was on duty all month except for 12 days of annual leave used as the opportunity to be off occurred. Park Naturalist Watson was on duty through December 27, except for 2 days of annual leave. His services terminated December 27 with his transfer to Cape Hatteras National Seashore Park. Mr. Watson left Yellowstone December 29. Park Naturalist David Beal entered on duty as Naturalist GS-7 on December 5 by transfer from the Yellowstone Ranger staff. He was on duty all month. Clerk-Stenographer Winona Moore was on duty all month, except for 1 day leave without pay on December 22.

Research and Observation

Park Naturalist Watson utilized his time during December to complete the manuscript on the interpretive pamphlet dealing with the Norris Geyser Basin. This manuscript was critically reviewed by Park Naturalists Beal and Condon. Many man hours were devoted to this project. It is now ready for final copying and submission to a publisher for an estimate on costs of printing. The publication is sponsored by the Yellowstone Library and Museum Association.

During the early part of the month the Yellowstone Broadside Information folder was reviewed and changes suggested.

Park Ranger Naturalist Robert Jonas reported that his thesis for the University of Idaho on "Beaver and Their Distribution" is progressing and that it will be submitted for his M. S. degree this spring. Considerable reference material has been supplied Mr. Jonas from the Yellowstone Research Library.

Mr. Tom McHugh was supplied information for use in his thesis on "Bison Behavior" which is being submitted to the University of Colorado at Boulder, Colorado, as part of the requirements for his M. S. degree.

Word was received from Mr. H. M. Albright that for the present time there is little possibility of a research grant being made for Mr. George D. Marler to conduct thermal studies in the Geyser Basins along the Firehole River.

Natural History Association

The Association purchased a number of books for the Research Library. The new book, A FIELD GUIDE TO ANIMAL TRACKS by O. J. Murie, has been added to the sales stock and a number were sold to employees at Christmas time.

The Association purchased a dozen rolls of magnetic tape for use with the tape recorders. The tapes on sounds made by thermal features, animals and streams, which were out on loan, were returned on the 28th. Mrs. Alice Quist, Association Clerk, worked 17 hours during the month.

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